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FIG. 1

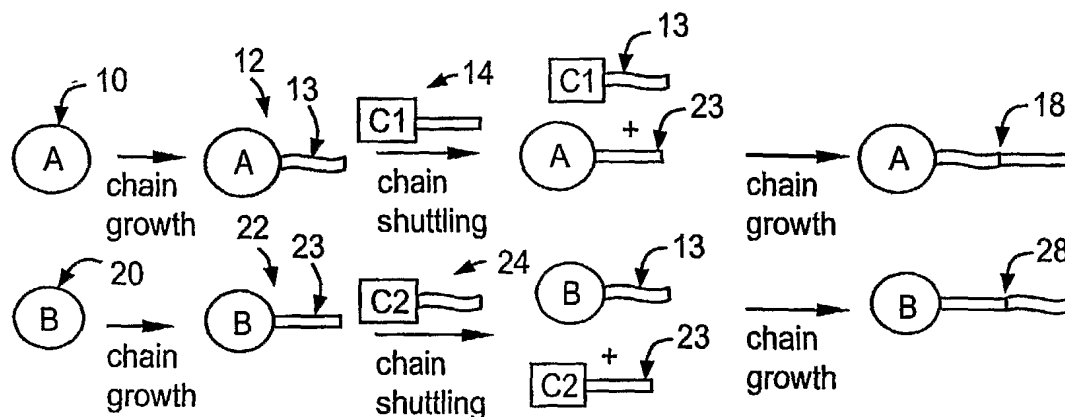
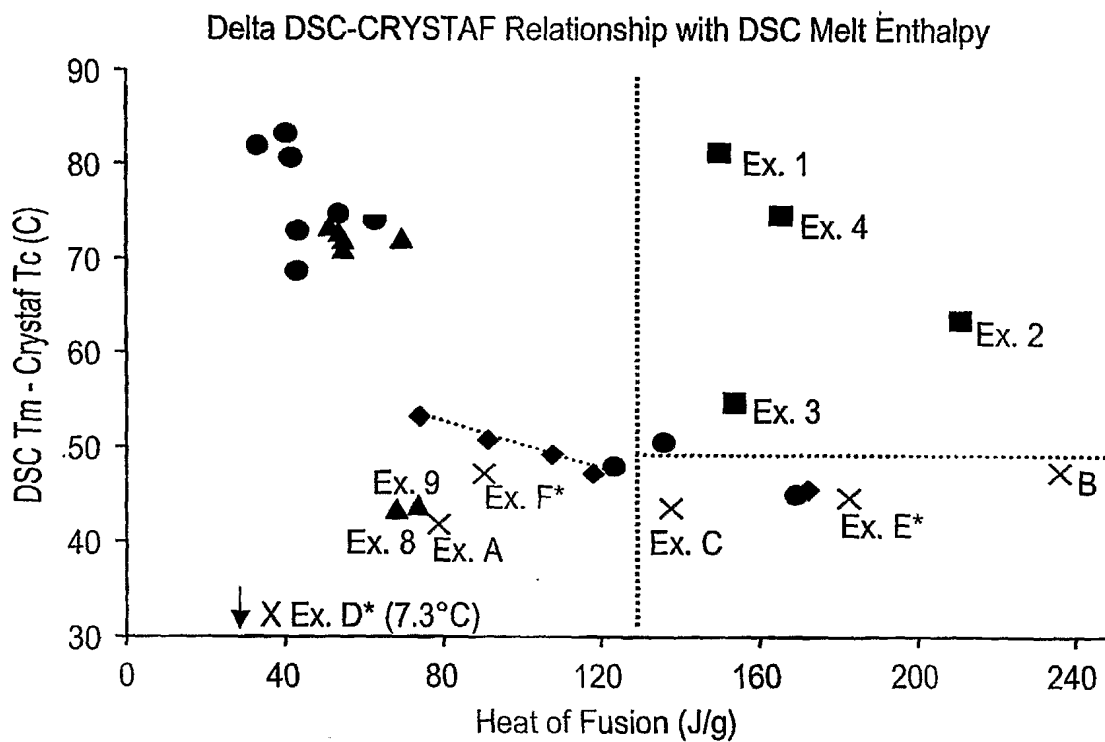


FIG. 2

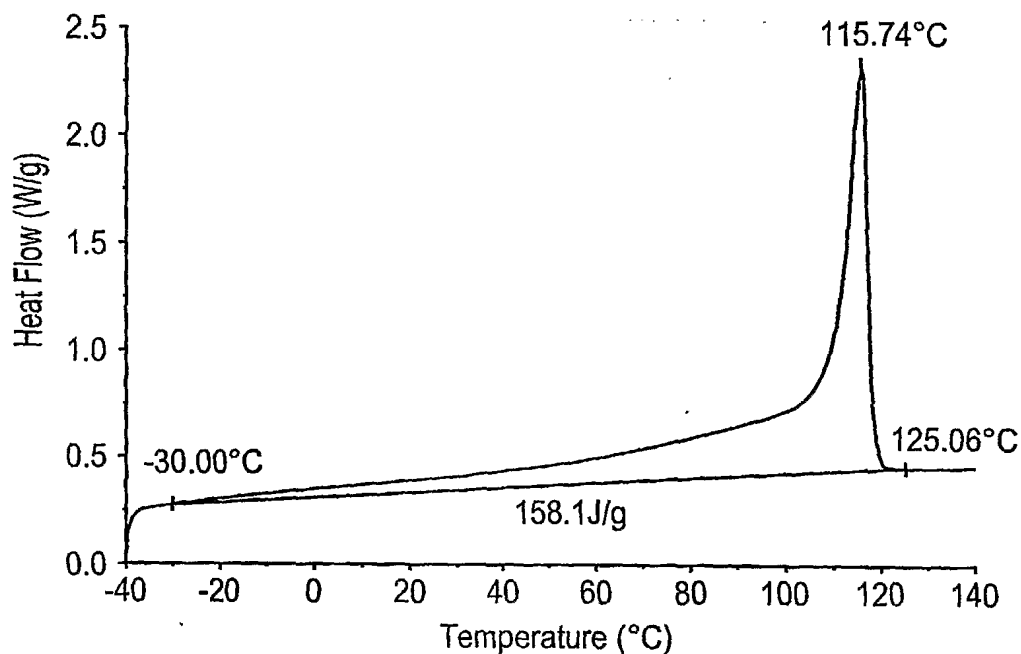


- ◆ Conventional E/O copolymer
- Examples 10-19
- ▲ Examples 5-9
- Examples 1-4
- × Examples A,B,C,D*,E*,F*

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FIG. 3

DSC Example 1

/ **CRYSTAF Report**

LIMS #: 77391.0

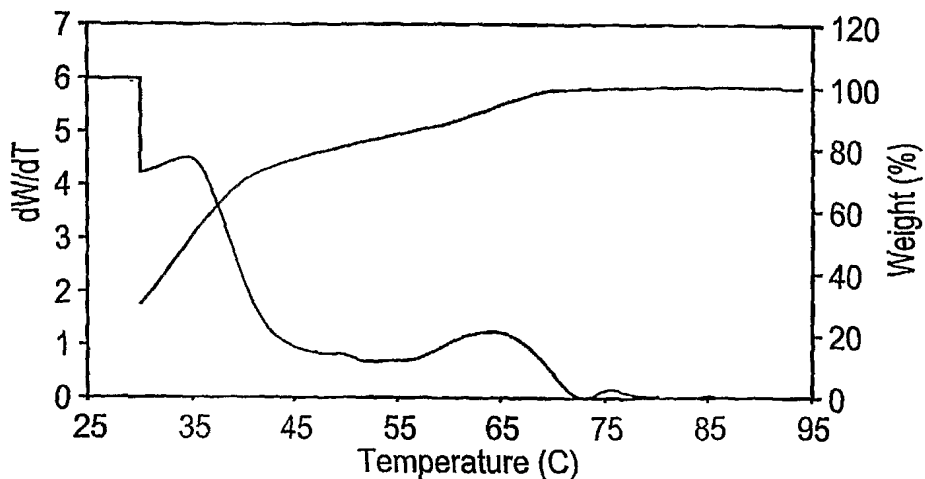
Reference: 102285-A2

Crystaf ID: 38600.0

	Temp (C)	Area (%)
Peak 1	34.5	52.9
Peak 2	64.0	16.5
Peak 3	0.0	0.0
Peak 4	0.0	0.0
Soluble	< 30	30.0

Statistics

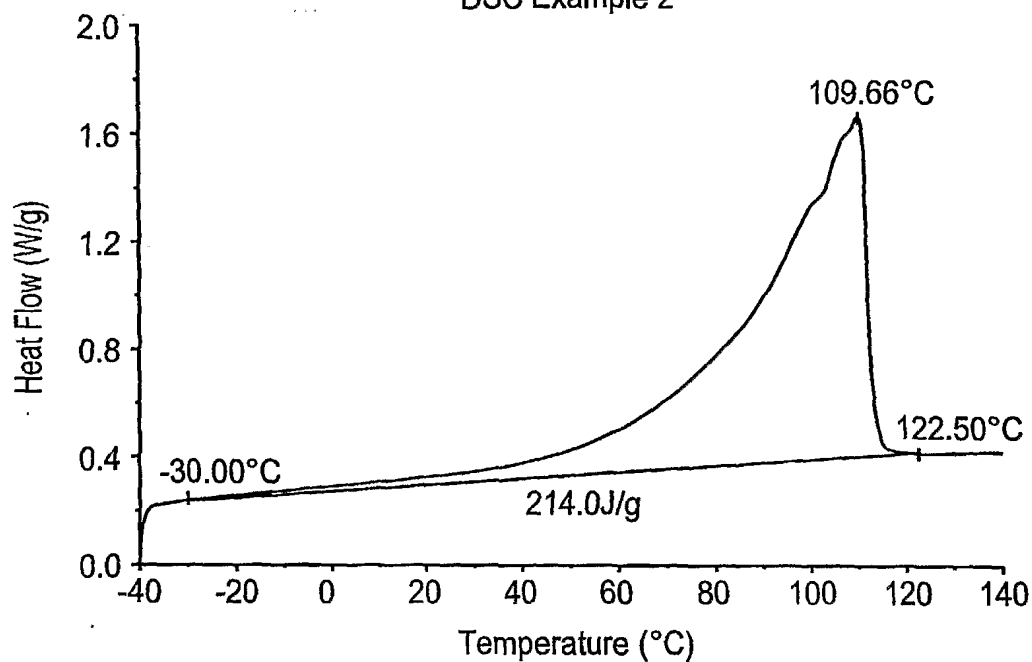
Tn	38.2
Tw	41.0
r	1.1
R	7.3
RMS T	12.0
Median	34.6
SDBI	18.5

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FIG. 4

DSC Example 2

**CRYSTAF Report**

LIMS #: 77392.0

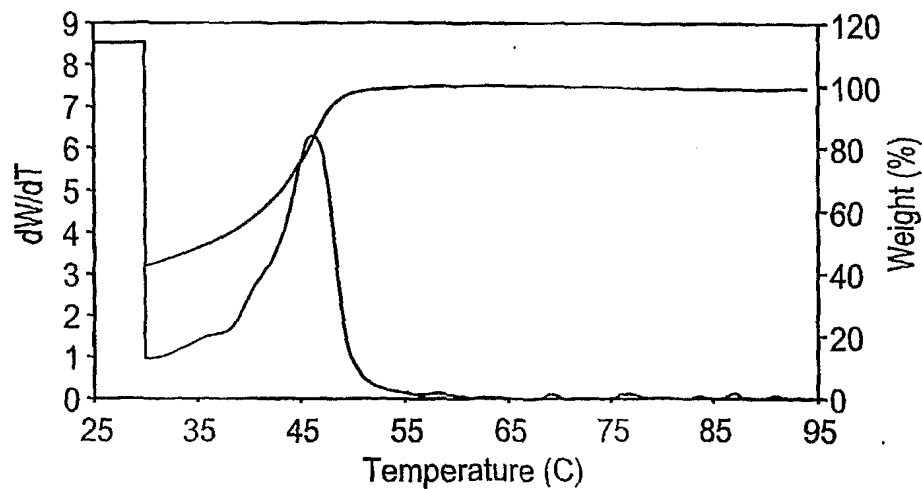
Reference: 102285-A2

Crystaf ID: 38630.0

	Temp (C)	Area (%)
Peak 1	46.2	57.0
Peak 2	0.0	0.0
Peak 3	0.0	0.0
Peak 4	0.0	0.0
Soluble	< 30	42.6

Statistics

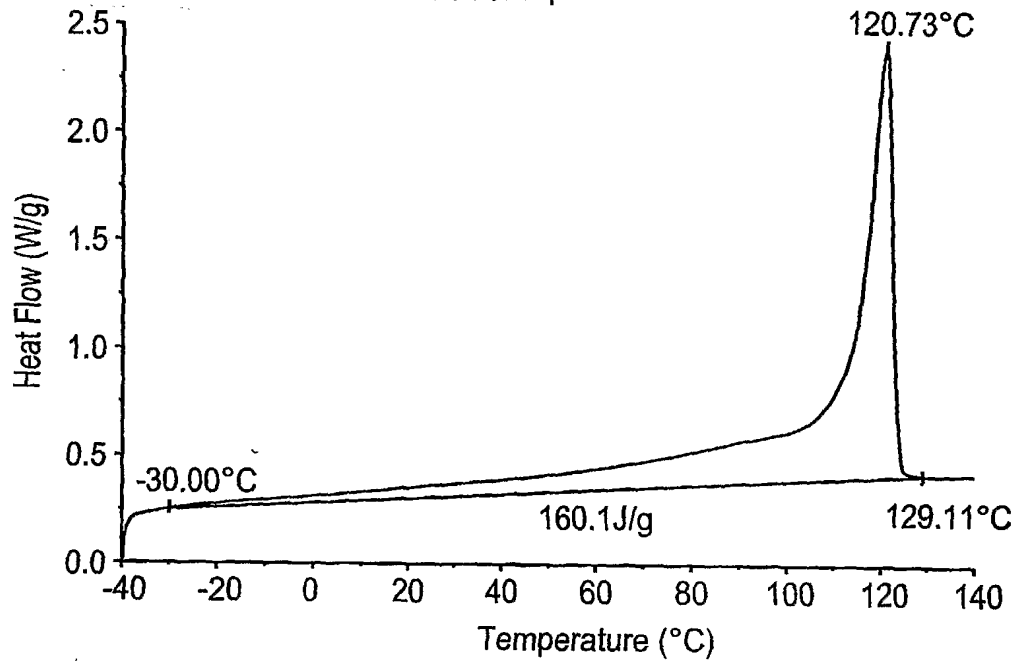
Tn	38.1
Tw	39.5
r	1.0
R	3.7
RMS T	7.5
Median	36.3
SDBI	18.9



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FIG. 5

DSC Example 3

**CRYSTAF Report**

LIMS #: 77393.0

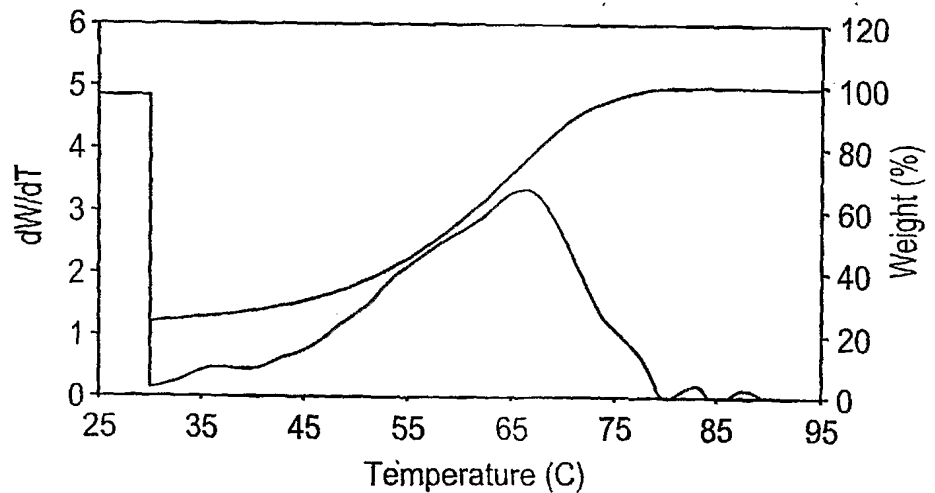
Reference: 102285-E4

Crystaf ID: 38661.0

	Temp (C)	Area (%)
Peak 1	36.7	3.2
Peak 2	66.1	71.8
Peak 3	0.0	0.0
Peak 4	0.0	0.0
Soluble	< 30	24.3

Statistics

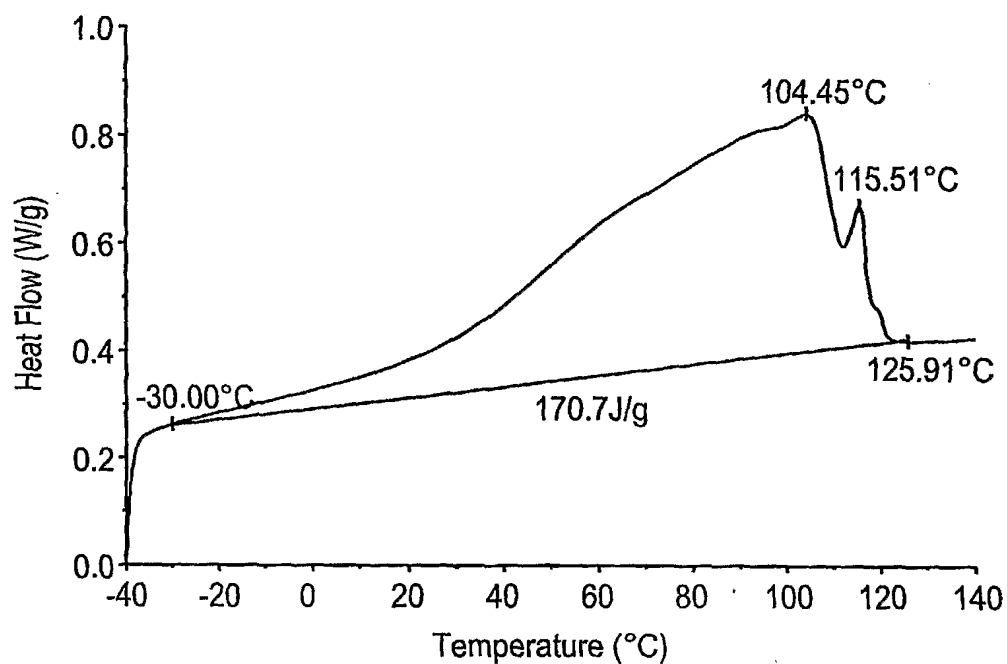
Tn	51.6
Tw	56.1
r	1.1
R	8.8
RMS T	14.1
Median	57.3
SDBI	18.4

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FIG. 6

DSC Example 4

**CRYSTAF Report**

LIMS #: 77394.0

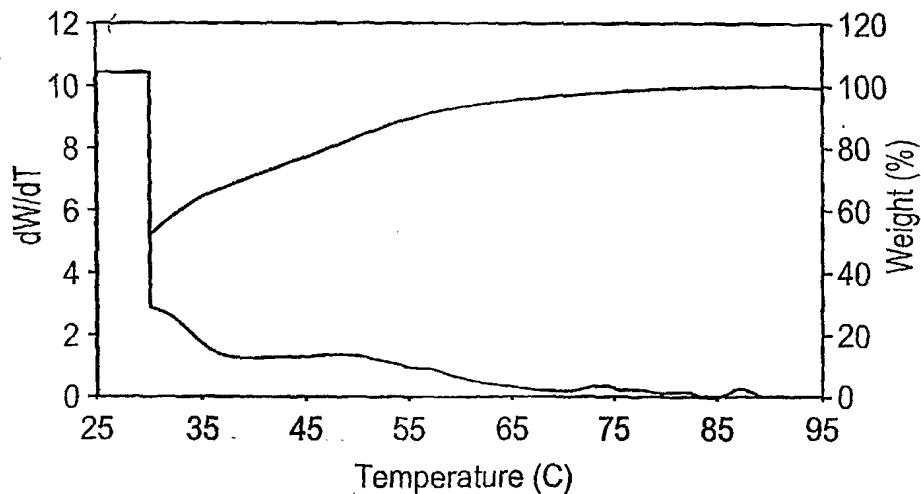
Reference: 102285-E5

Crystaf ID: 38691.0

	Temp (C)	Area (%)
Peak 1	30.0	18.2
Peak 2	48.4	26.5
Peak 3	73.7	1.6
Peak 4	77.2	0.7
Soluble	< 30	51.9

Statistics

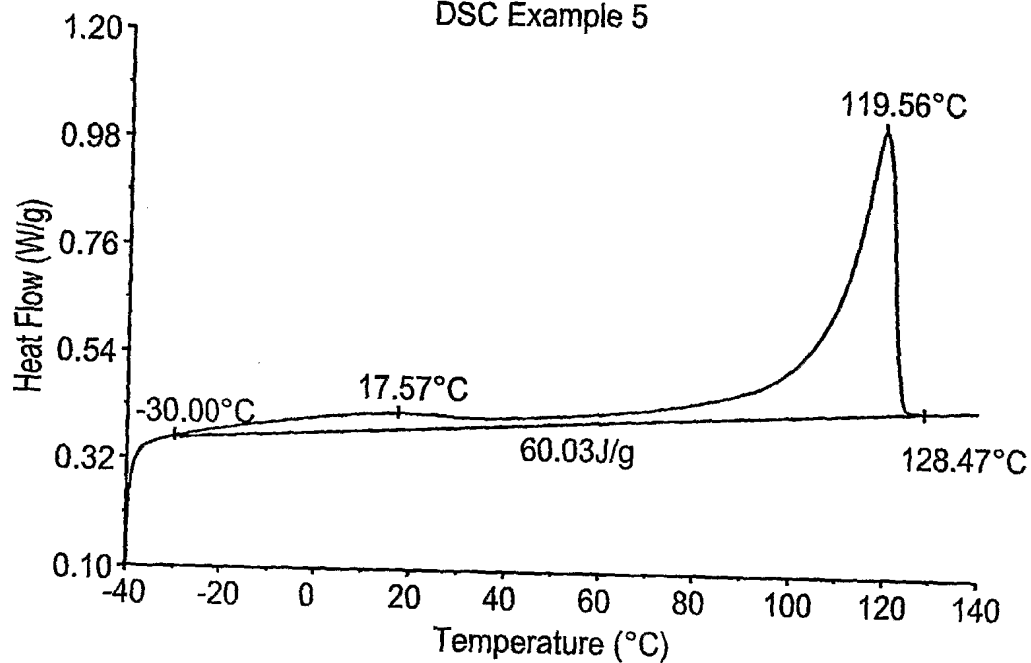
Tn	37.2
Tw	40.2
r	1.1
R	8.1
RMS T	12.5
Median	30.0
SDBI	23.3

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FIG. 7

DSC Example 5

**CRYSTAF Report**

LIMS #: 70205.0

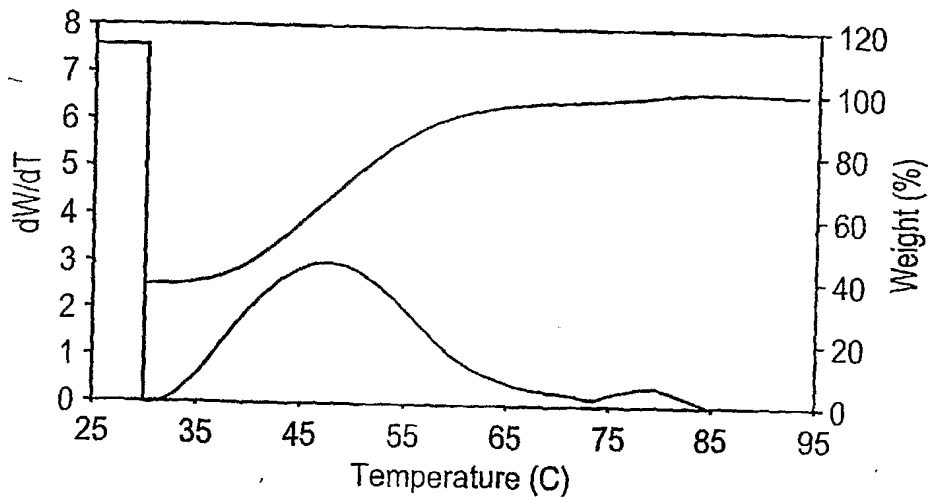
Reference: 200402166-28-8

Crystaf ID: 609-04

	Temp (C)	Area (%)
Peak 1	47.6	59.5
Peak 2	0.0	0.0
Peak 3	0.0	0.0
Peak 4	0.0	0.0
Soluble	< 30	37.8

Statistics

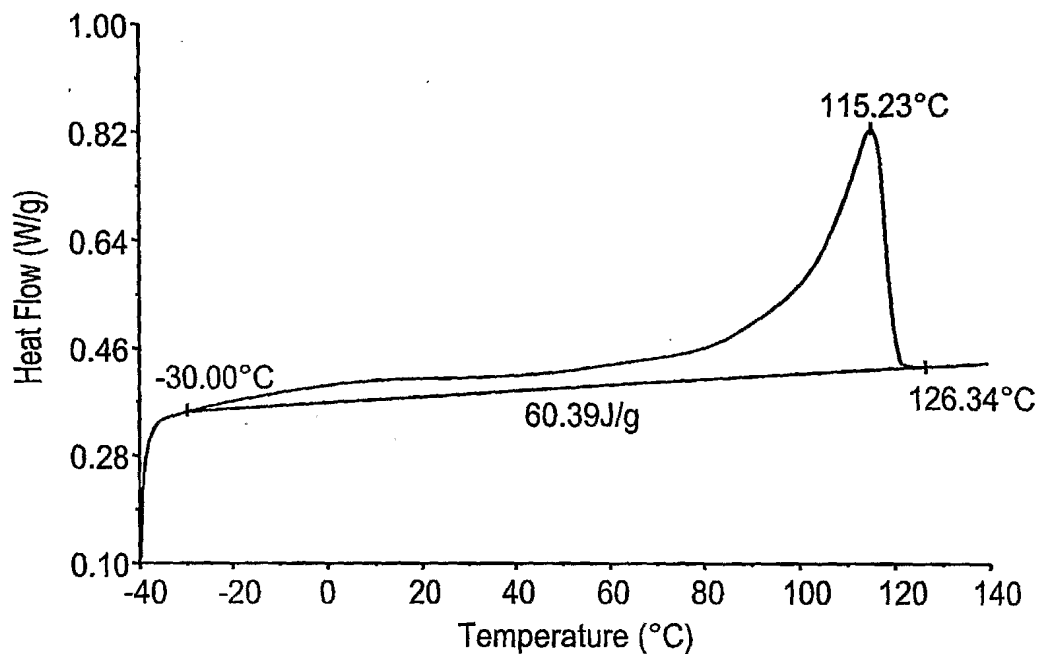
Tn	42.5
Tw	45.5
r	1.1
R	7.1
RMS T	11.8
Median	42.3
SDBI	19.0



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FIG. 8

DSC Example 6

**CRYSTAF Report**

LIMS #: 70203.0

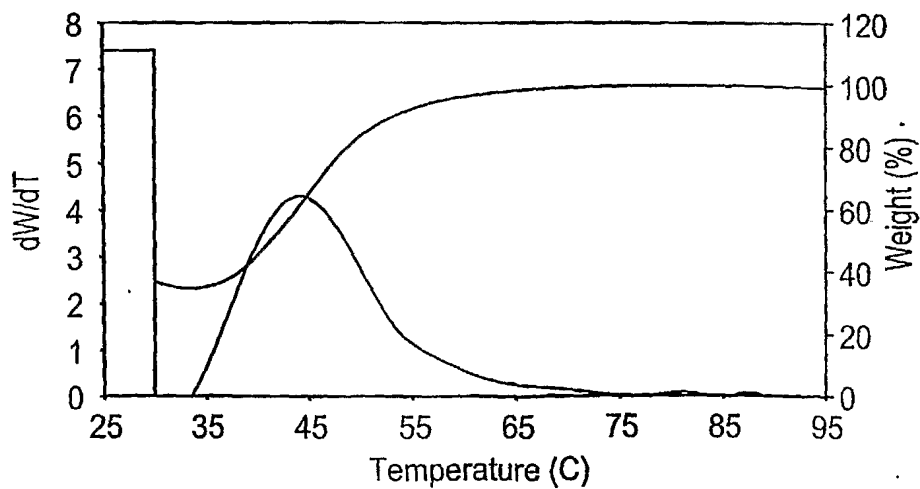
Reference: 200402166-28-6

Crystaf ID: 607-04

	Temp (C)	Area (%)
Peak 1	44.2	62.7
Peak 2	0.0	0.0
Peak 3	0.0	0.0
Peak 4	0.0	0.0
Soluble	< 30	37.0

Statistics

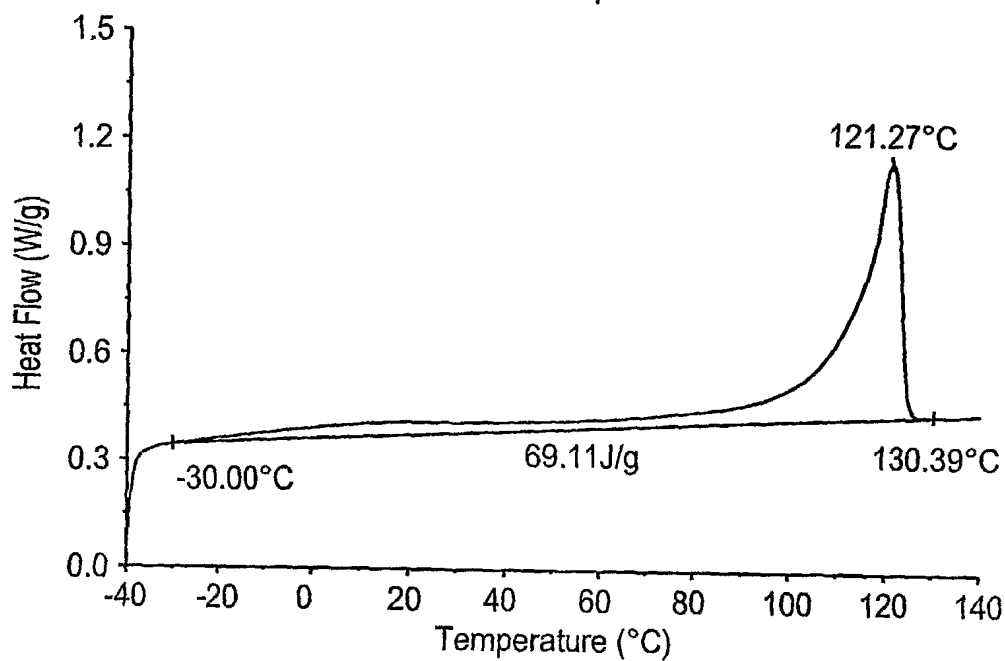
Tn	41.2
Tw	43.1
r	1.0
R	4.6
RMST	8.8
Median	41.3
SDBI	18.9

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FIG. 9

DSC Example 7

**CRYSTAF Report**

LIMS #: 70432.0

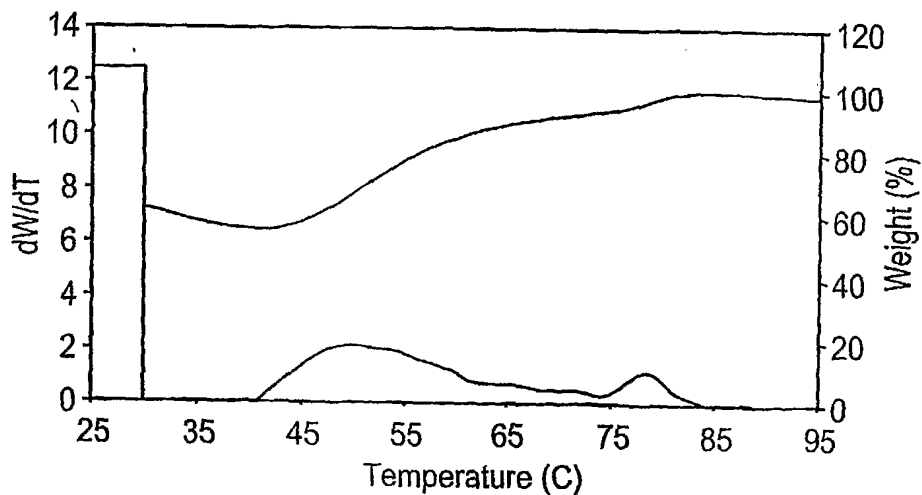
Reference: 200402166-28-10

Crystaf ID: 621-04

	Temp (C)	Area (%)
Peak 1	49.2	29.4
Peak 2	70.3	2.0
Peak 3	78.1	6.2
Peak 4	0.0	0.0
Soluble	< 30	62.2

Statistics

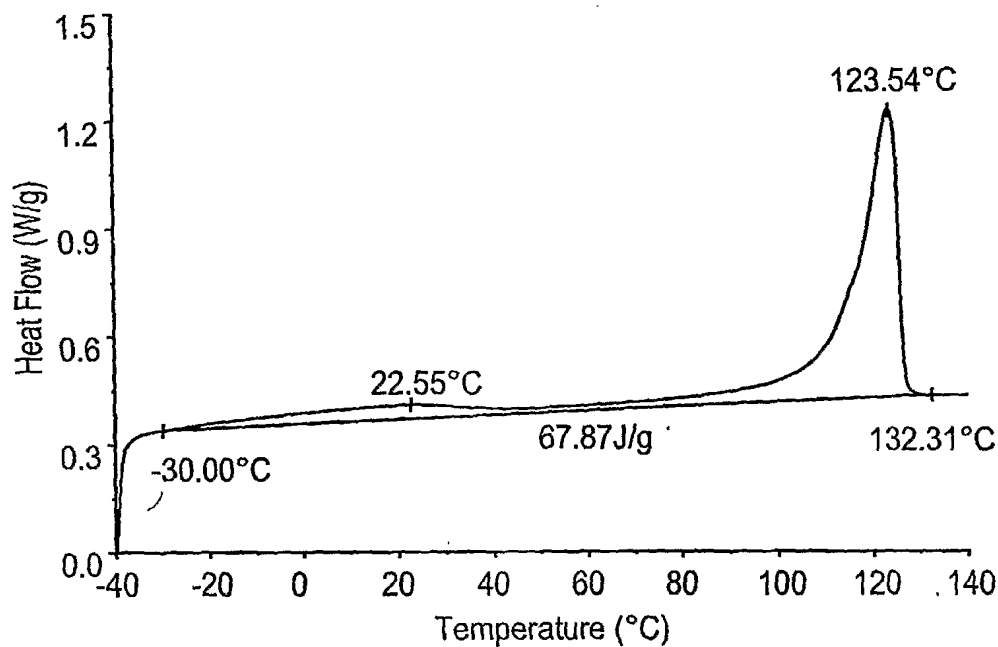
Tn	42.1
Tw	47.3
r	1.1
R	12.6
RMS T	16.0
Median	30.0
SDBI	23.0



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FIG. 10

DSC Example 8

**CRYSTAF Report**

LIMS #: 70552.0

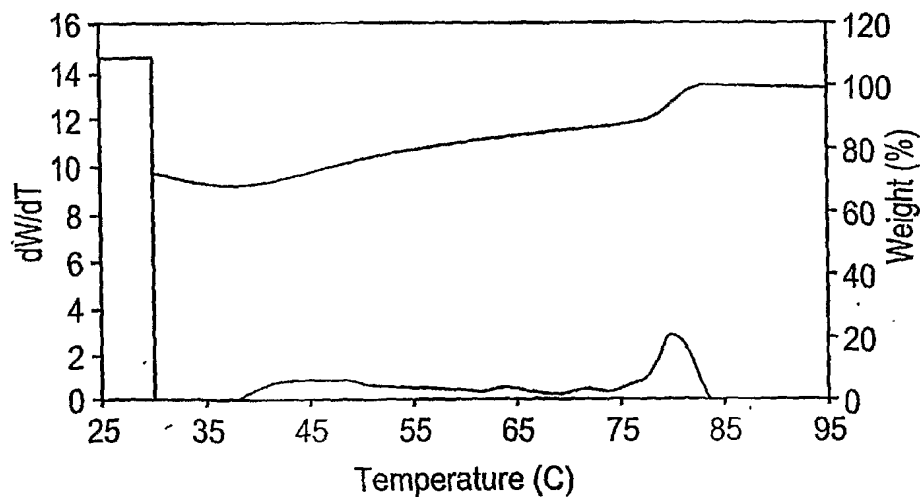
Reference: 200402166-28-13

Crystaf ID: 631-04

	Temp (C)	Area (%)
Peak 1	47.3	9.7
Peak 2	63.8	2.9
Peak 3	72.1	1.8
Peak 4	80.1	12.7
Soluble	< 30	72.7

Statistics

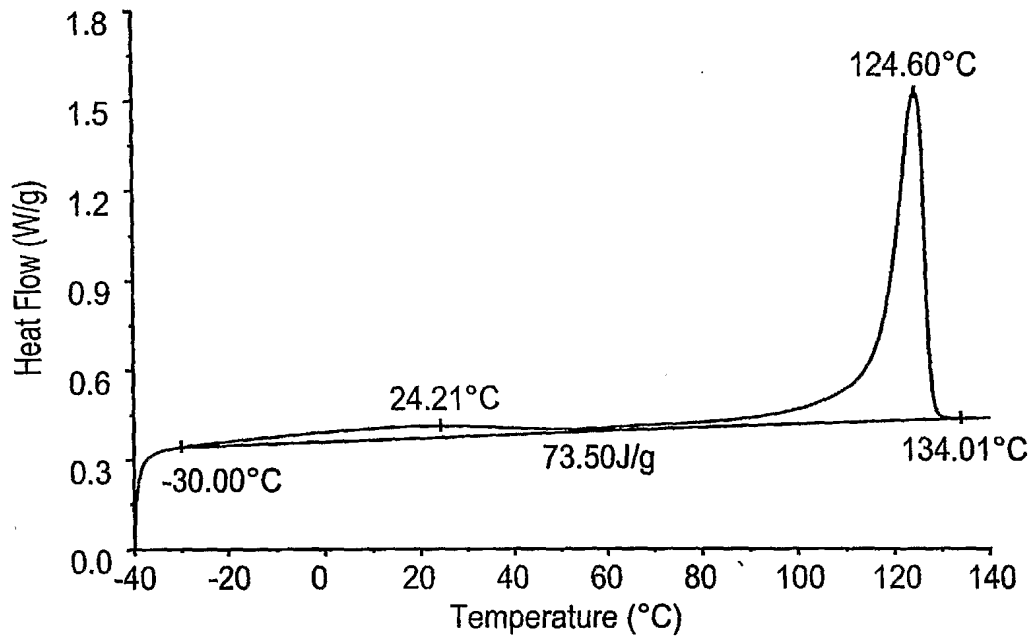
Tn	39.5
Tw	46.4
r	1.2
R	17.4
RMS T	19.9
Median	30.0
SDBI	25.9

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FIG. 11

DSC Example 9

**CRYSTAF Report**

LIMS #: 70553.0

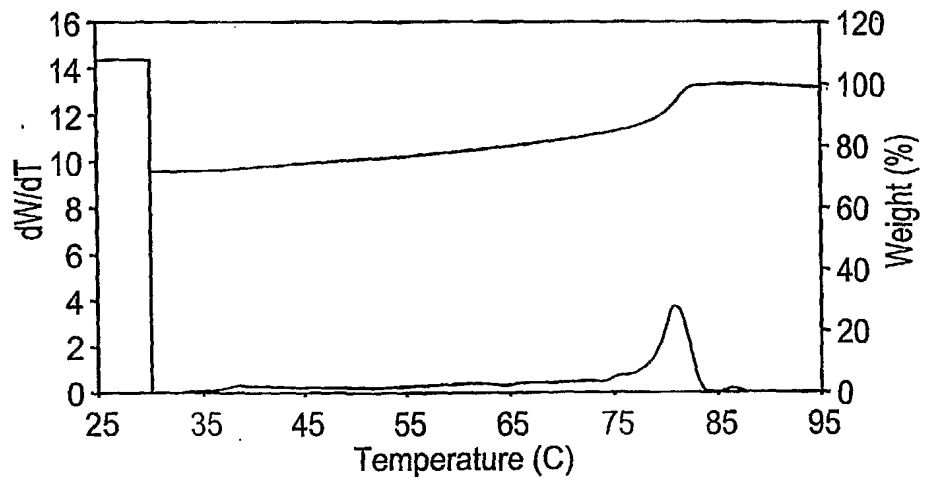
Reference: 200402166-28-14

Crystaf ID: 632-04

	Temp (C)	Area (%)
Peak 1	39.6	2.2
Peak 2	62.0	3.0
Peak 3	72.2	2.0
Peak 4	80.8	16.0
Soluble	< 30	71.9

Statistics

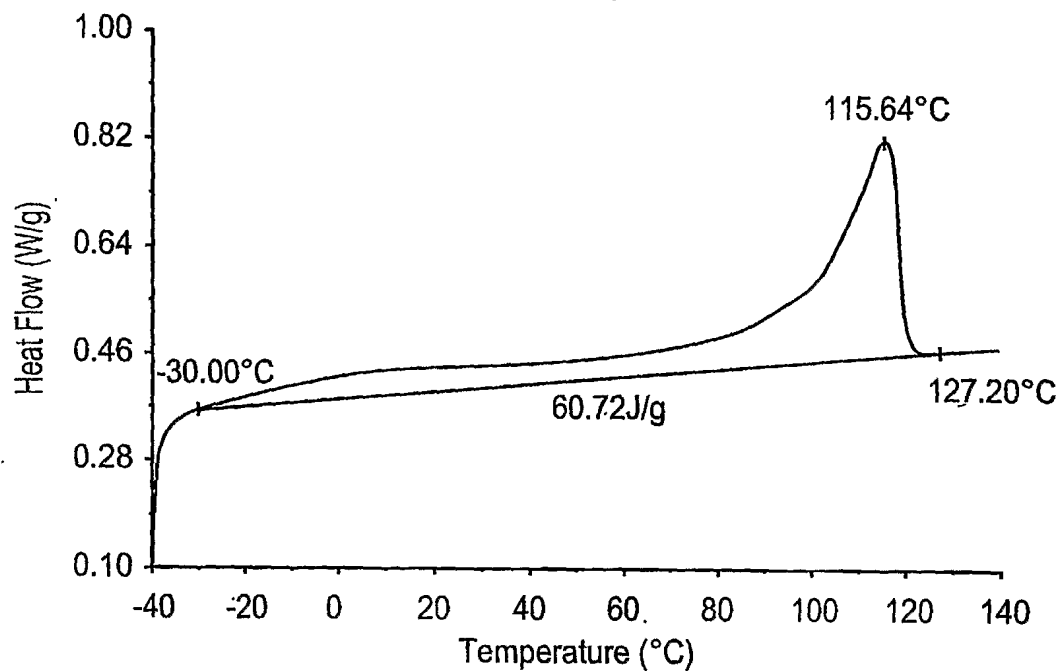
Tn	39.4
Tw	47.3
r	1.2
R	20.1
RMS T	21.6
Median	30.6
SDBI	25.9

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FIG. 12

DSC Example 10

**CRYSTAF Report**

LIMS #: 73541.0

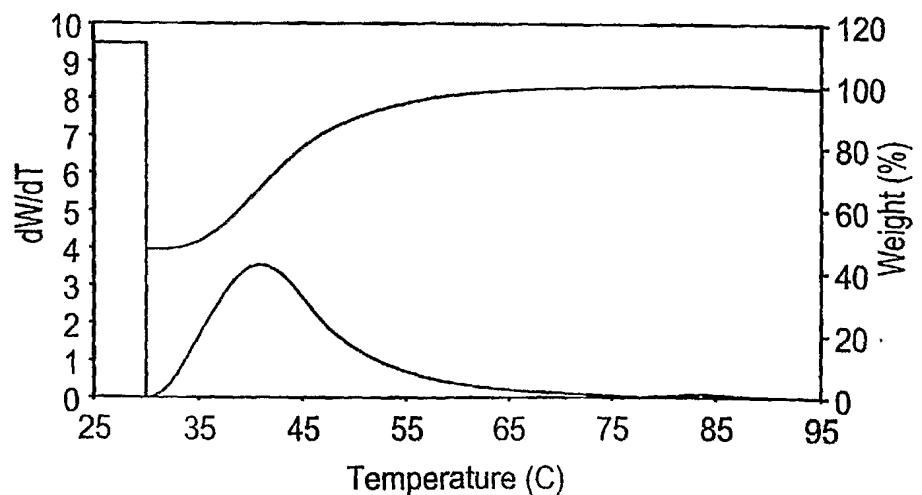
Reference: 04C25R01

Crystaf ID: 697-04

	Temp (C)	Area (%)
Peak 1	40.9	52.4
Peak 2	0.0	0.0
Peak 3	0.0	0.0
Peak 4	0.0	0.0
Soluble	< 30	47.2

Statistics

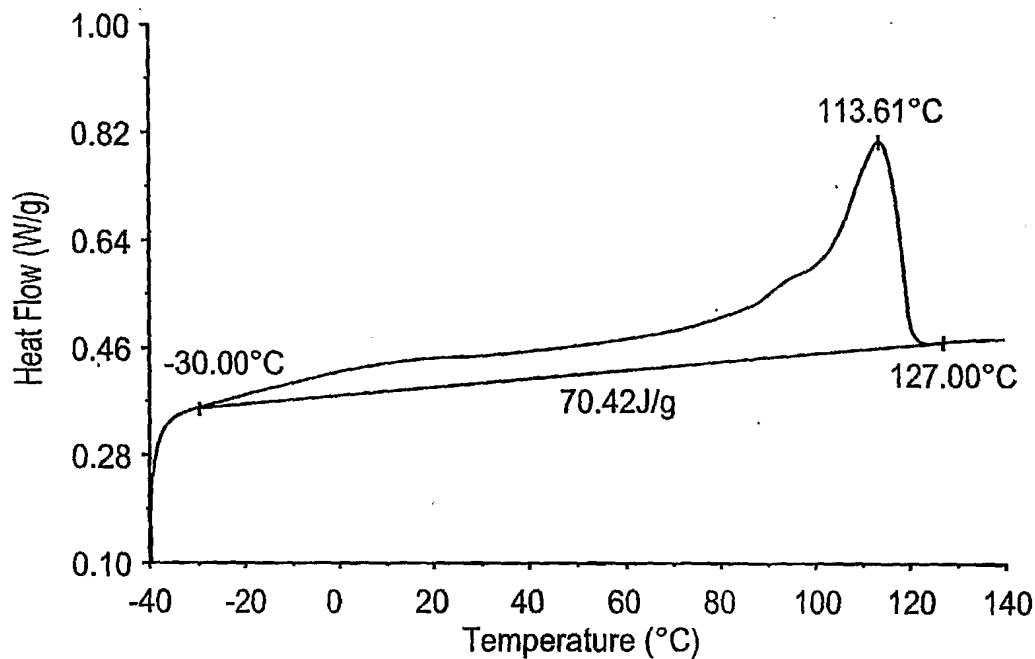
Tn	38.0
Tw	39.9
r	1.0
R	4.9
RMS T	8.9
Median	34.9
SDBI	20.5

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FIG. 13

DSC Example 11

**CRYSTAF Report**

LIMS #: 73542.0

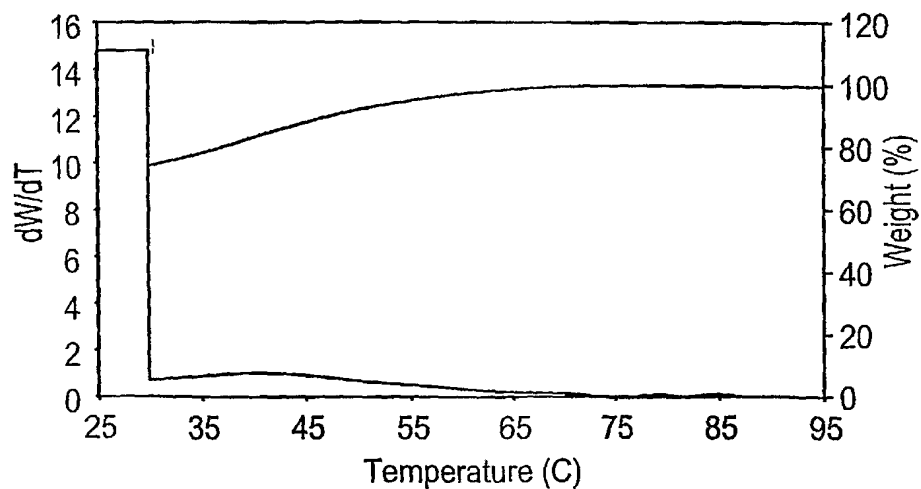
Reference: 04C25R02

Crystaf ID: 698-04

	Temp (C)	Area (%)
Peak 1	39.6	25.2
Peak 2	0.0	0.0
Peak 3	0.0	0.0
Peak 4	0.0	0.0
Soluble	< 30	74.0

Statistics

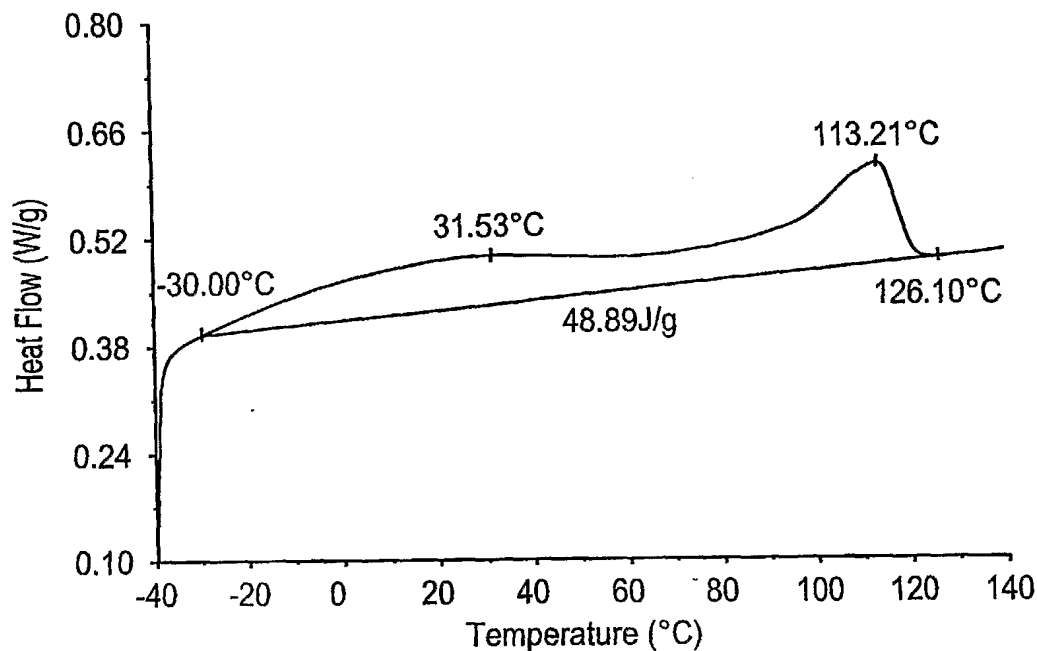
Tn	34.3
Tw	36.2
r	1.1
R	5.6
RMS T	9.6
Median	30.0
SDBI	22.3

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FIG. 14

DSC Example 12

**CRYSTAF Report**

LIMS #: 73543.0

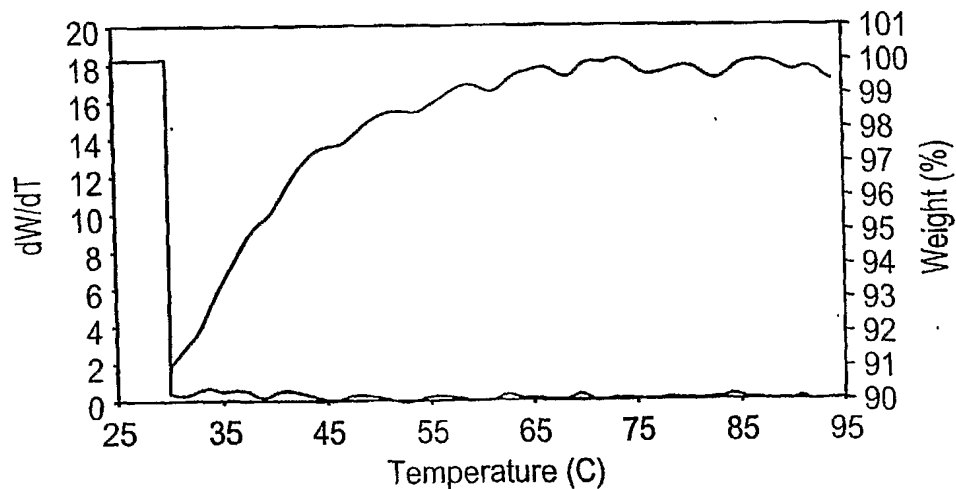
Reference: 04C25R03

Crystaf ID: 699-04

	Temp (C)	Area (%)
Peak 1	33.6	2.2
Peak 2	36.7	1.7
Peak 3	41.1	2.2
Peak 4	48.1	1.0
Soluble	< 30	91.0

Statistics

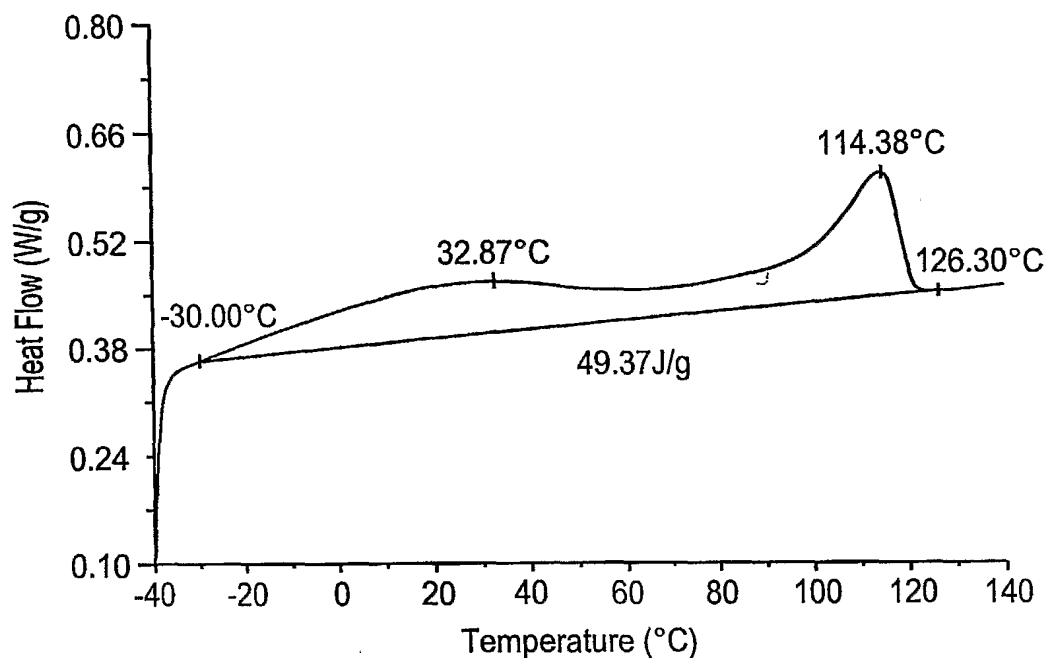
Tn	31.2
Tw	31.8
r	1.0
R	1.8
RMS T	5.2
Median	30.0
SDBI	26.4

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FIG. 15

DSC Example 13

**CRYSTAF Report**

LIMS #: 73698.0

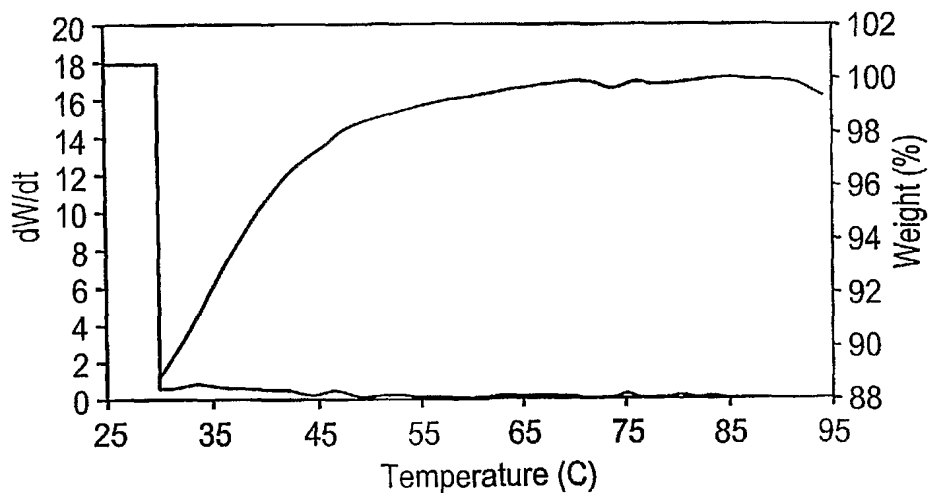
Reference: 04C25R04 20040216

Crystaf ID: 718-04

	Temp (C)	Area (%)
Peak 1	33.8	7.7
Peak 2	46.2	1.4
Peak 3	51.7	0.5
Peak 4	62.2	0.5
Soluble	< 30	88.9

Statistics

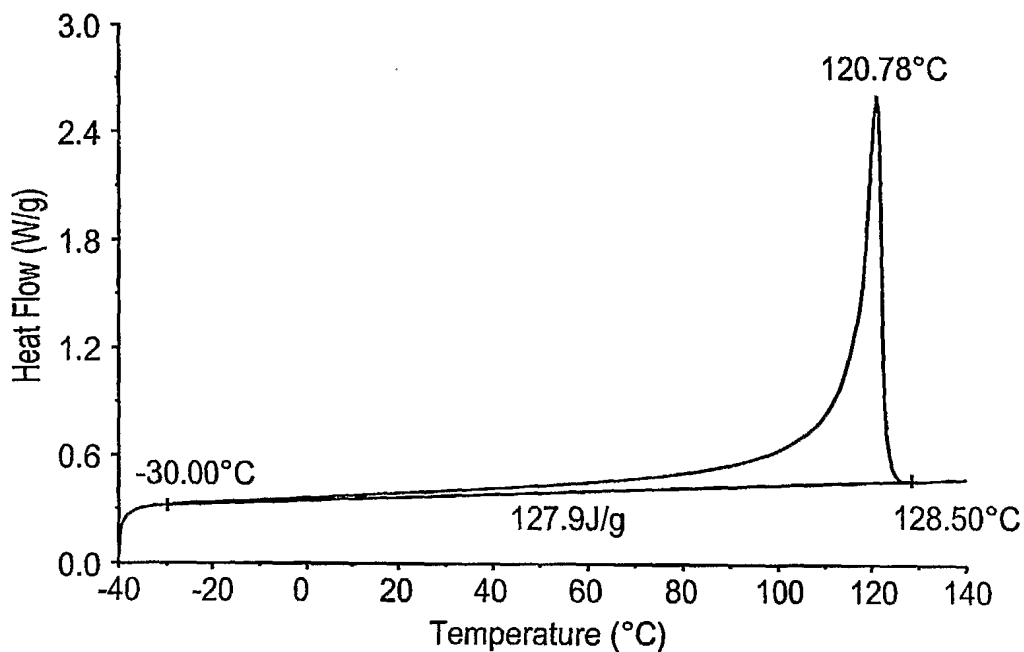
Tn	31.4
Tw	31.9
r	1.0
R	1.7
RMS T	4.6
Median	30.0
SDBI	23.6

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FIG. 16

DSC Example 14

**CRYSTAF Report**

LIMS #: 73699.0

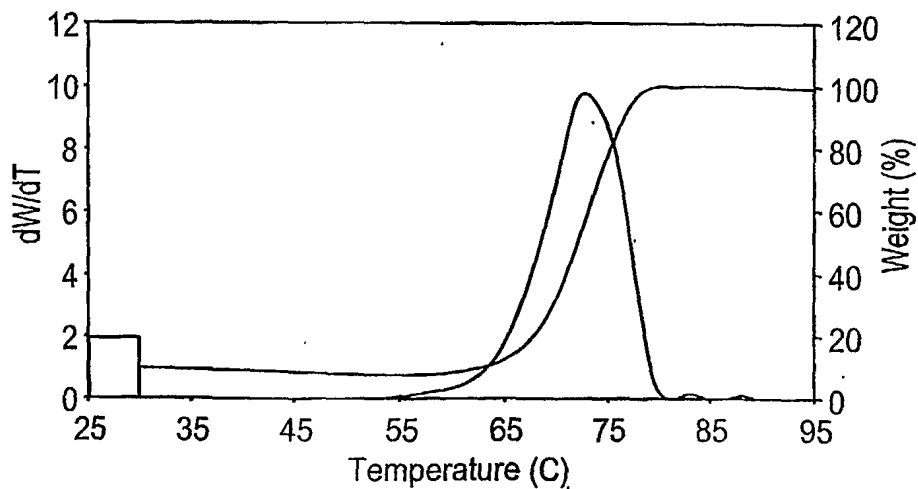
Reference: 04C25R05 20040216

Crystaf ID: 715-04

	Temp (C)	Area (%)
Peak 1	72.9	92.2
Peak 2	83.0	0.1
Peak 3	0.0	0.0
Peak 4	0.0	0.0
Soluble	< 30	9.6

Statistics

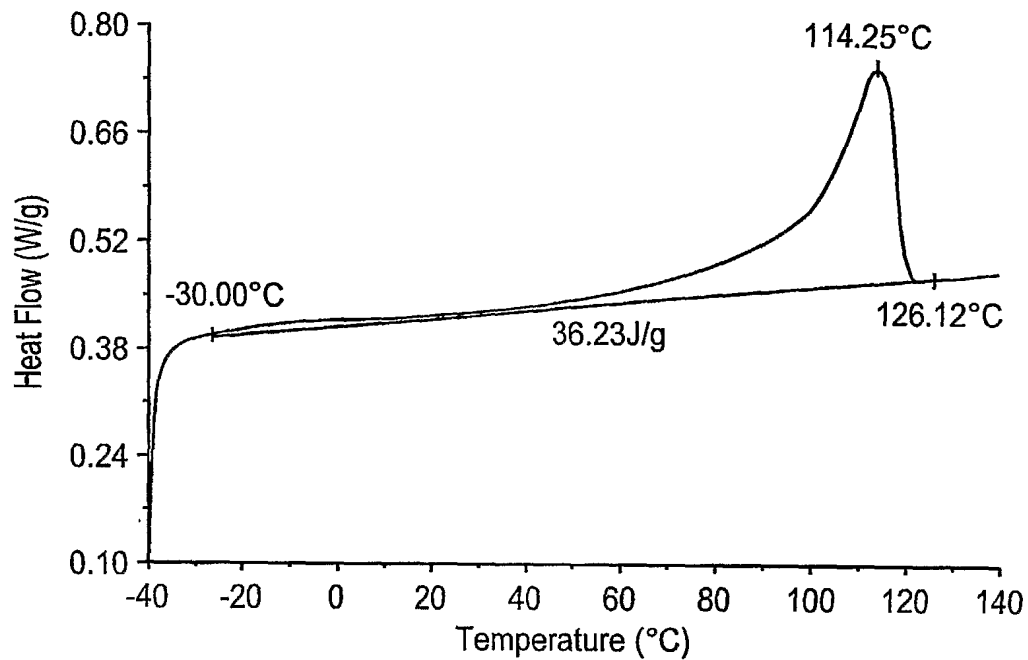
Tn	68.1
Tw	70.5
r	1.0
R	3.6
RMS T	9.0
Median	72.1
SDBI	20.0



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FIG. 17

DSC Example 15

**CRYSTAF Report**

LIMS #: 74111.0

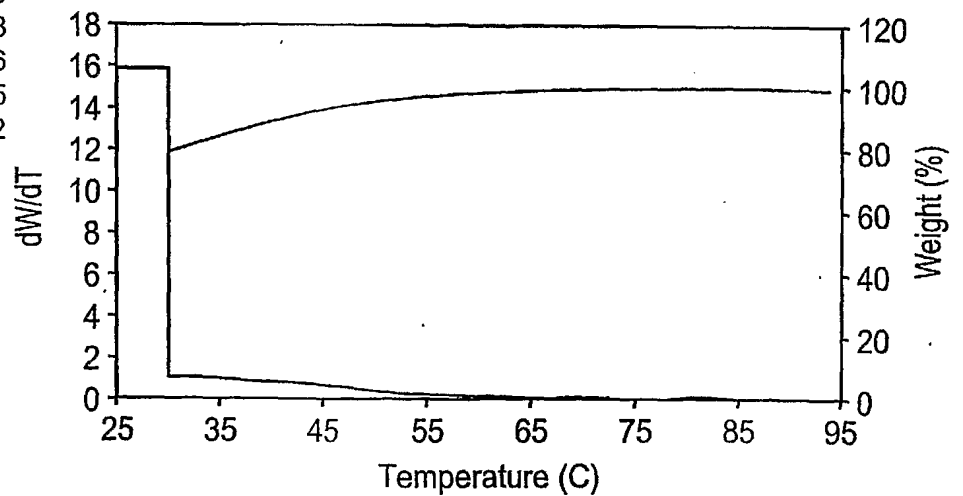
Reference: 104C25R06 20040216

Crystaf ID: 719-04

	Temp (C)	Area (%)
Peak 1	30.0	0.9
Peak 2	32.3	9.8
Peak 3	41.4	9.6
Peak 4	69.1	0.5
Soluble	< 30	79.2

Statistics

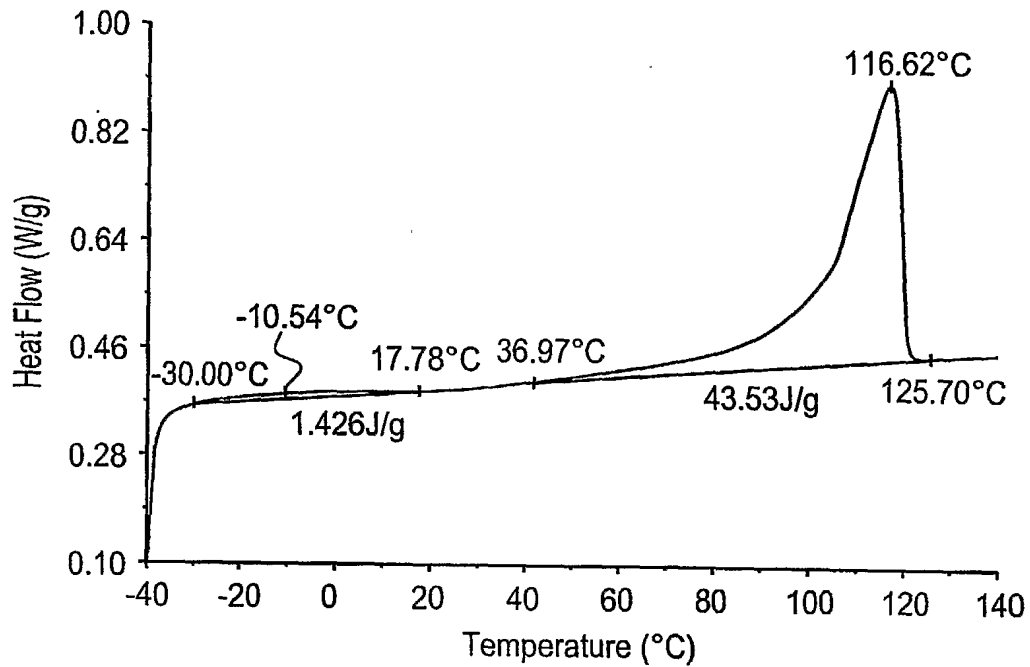
Tn	32.9
Tw	34.0
r	1.0
R	3.6
RMS T	7.2
Median	30.0
SDBI	23.2

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FIG. 18

DSC Example 16

**CRYSTAF Report**

LIMS #: 74112.0

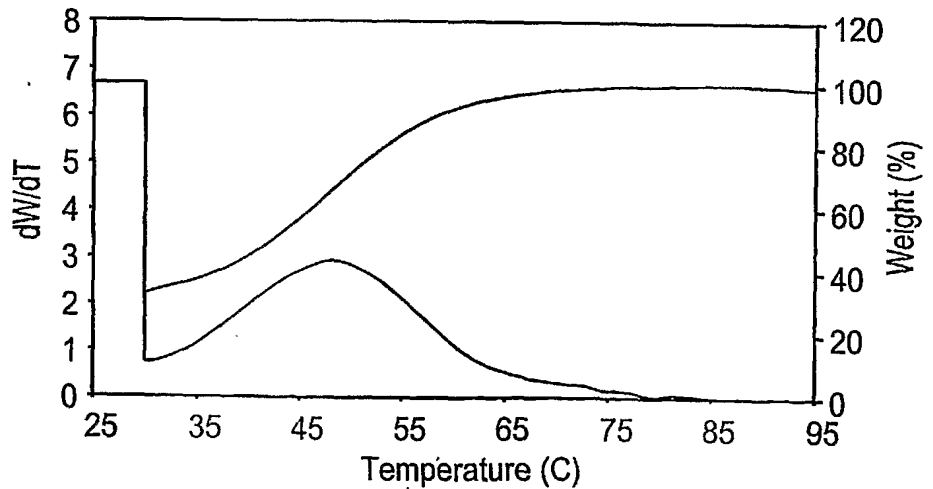
Reference: 200402166-39 04C25

Crystaf ID: 725-04

	Temp (C)	Area (%)
Peak 1	48.0	65.0
Peak 2	0.0	0.0
Peak 3	0.0	0.0
Peak 4	0.0	0.0
Soluble	< 30	33.4

Statistics

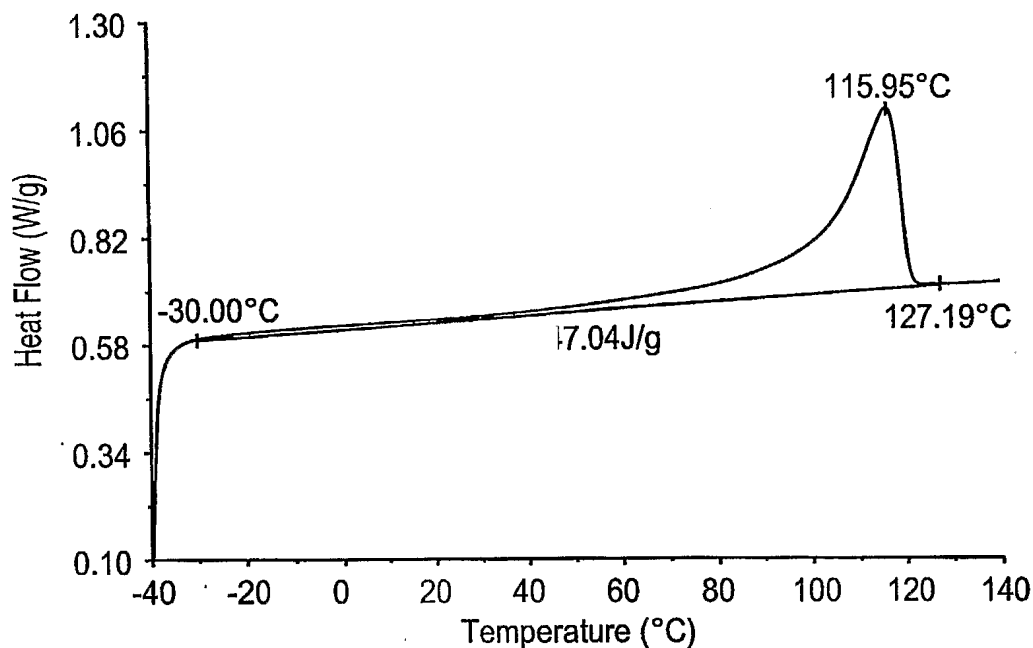
Tn	42.0
Tw	44.7
r	1.1
R	6.4
RMS T	10.8
Median	42.0
SDBI	19.9

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FIG. 19

DSC Example 17

**CRYSTAF Report**

LIMS #: 74115.0

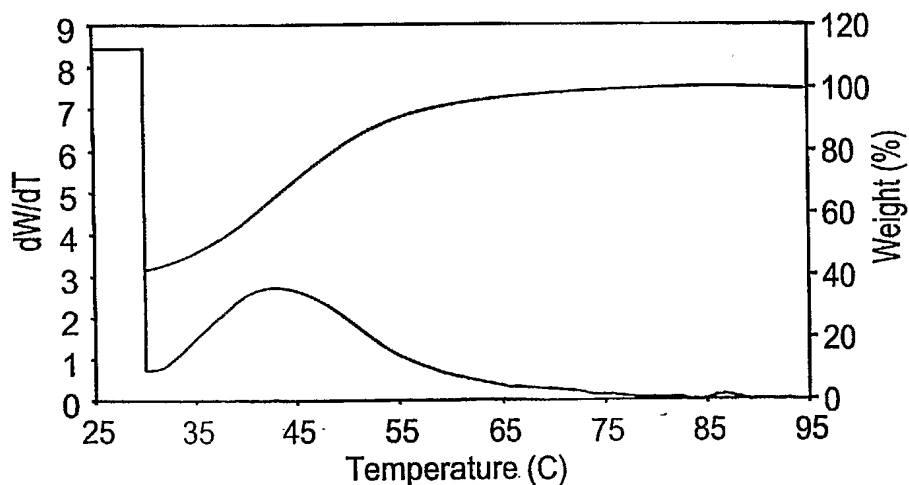
Reference: 200402166-39 04C25

Crystaf ID: 726-04

	Temp (C)	Area (%)
Peak	43.1	56.8
Peak 2	0.0	0.0
Peak 3	0.0	0.0
Peak 4	0.0	0.0
Soluble	< 30	42.3

Statistics

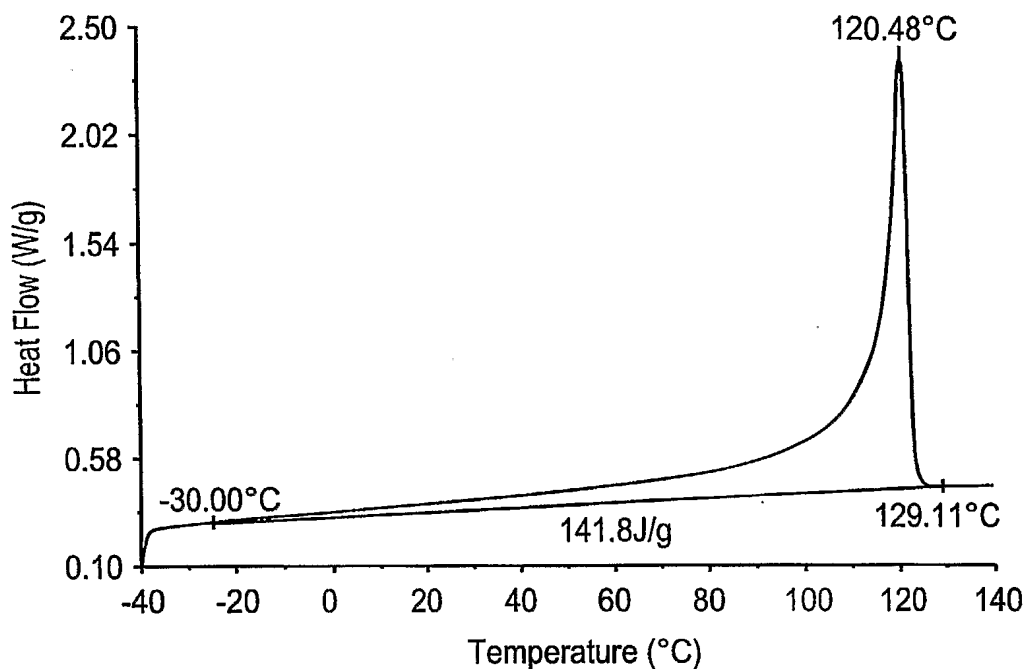
Tn	39.5
Tw	42.0
r	1.1
R	6.3
RMS T	10.7
Median	36.7
SDBI	20.6

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FIG. 20

DSC Example 18

**CRYSTAF Report**

LIMS #: 74113.0

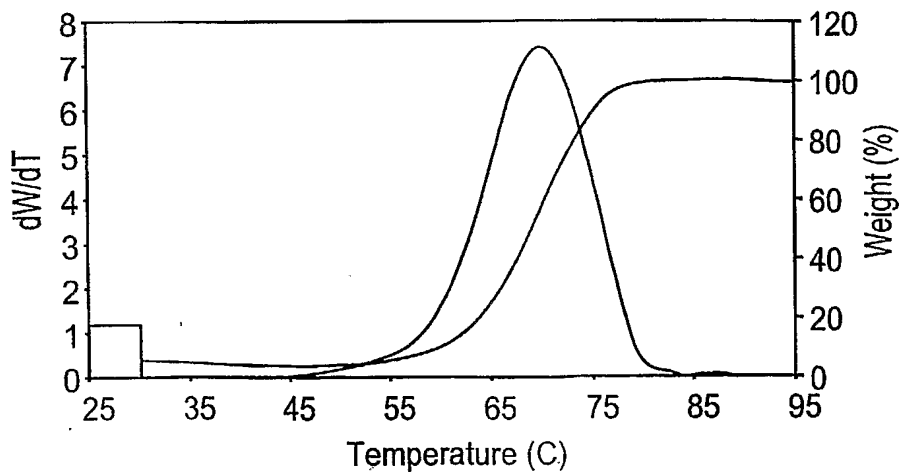
Reference: 04C25R08 20040216

Crystaf ID: 716-04

	Temp (C)	Area (%)
Peak 1	70.0	94.0
Peak 2	0.0	0.0
Peak 3	0.0	0.0
Peak 4	0.0	0.0
Soluble	< 30	5.9

Statistics

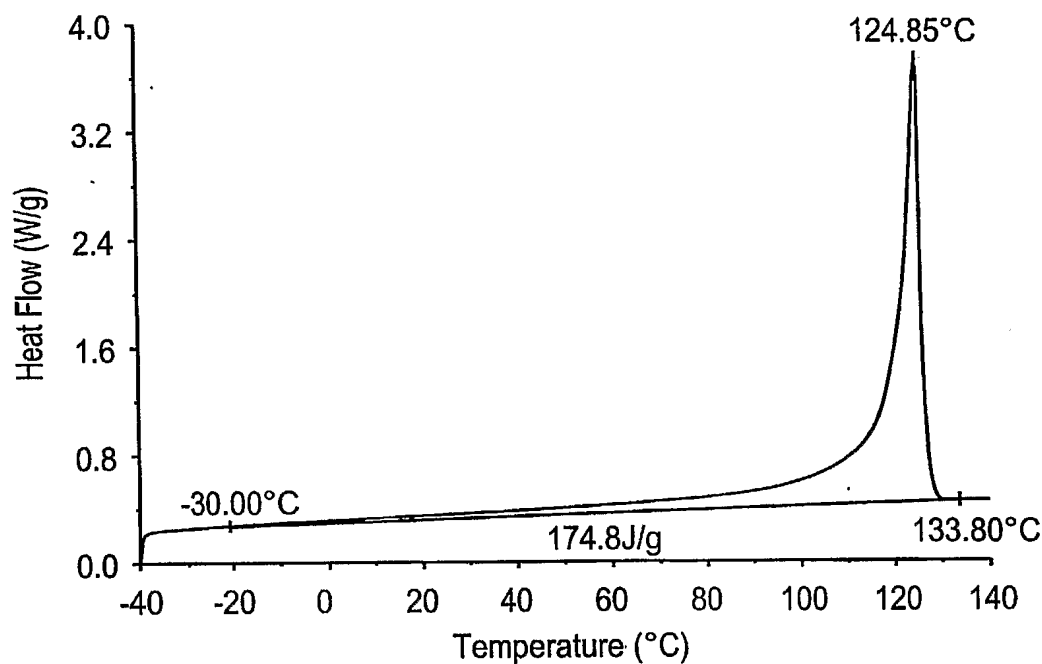
Tn	66.9
Tw	68.2
r	1.0
R	1.8
RMS T	7.1
Median	68.9
SDBI	17.7

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FIG. 21

DSC Example 19

**CRYSTAF Report**

LIMS #: 74114.0

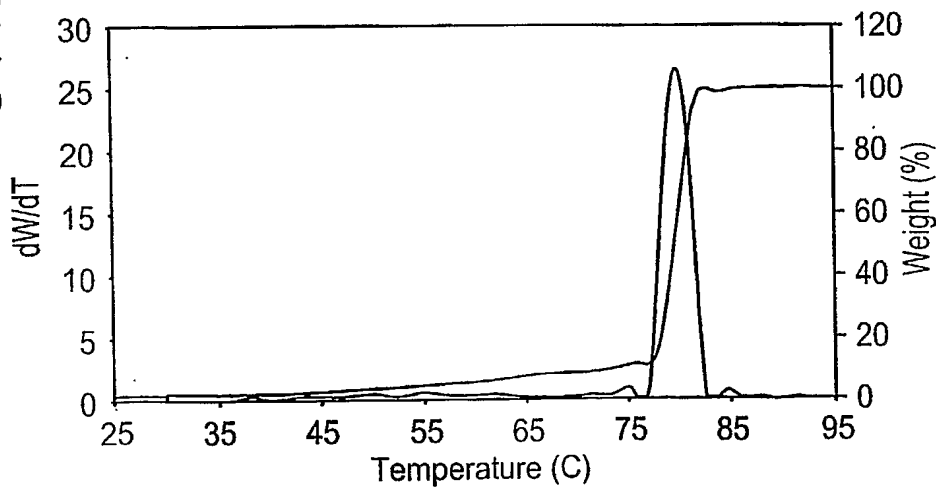
Reference: 04C25R09 20040216

Crystaf ID: 717-04

	Temp (C)	Area (%)
Peak 1	55.0	2.0
Peak 2	61.9	2.7
Peak 3	74.8	1.7
Peak 4	79.9	87.9
Soluble	< 30	2.1

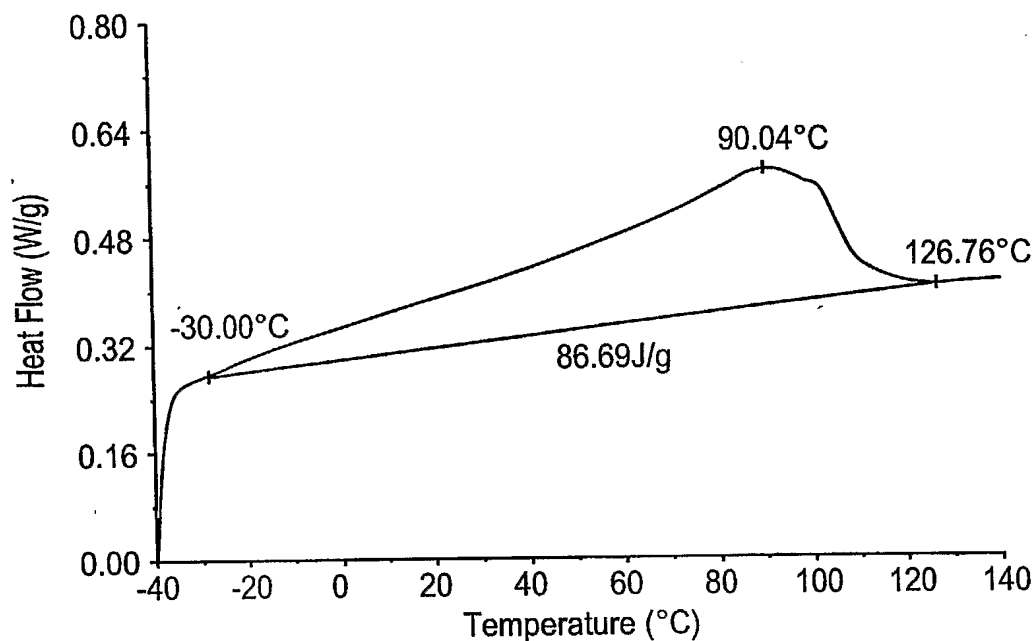
Statistics

Tn	76.7
Tw	77.8
r	1.0
R	1.5
RMS T	7.3
Median	79.6
SDBI	18.9

**SUBSTITUTE SHEET (RULE 26)**

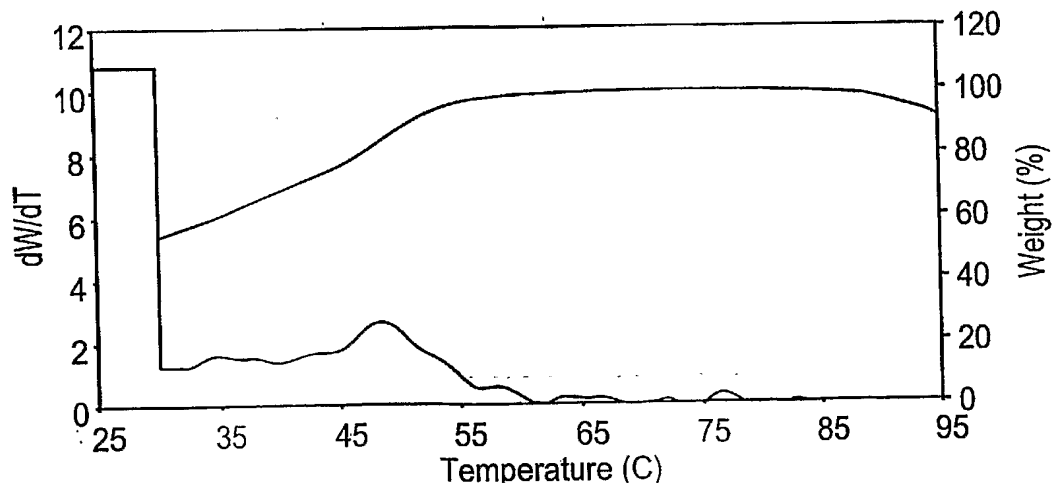
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FIG. 22
DSC Comparative A*

**CRYSTAF Report**

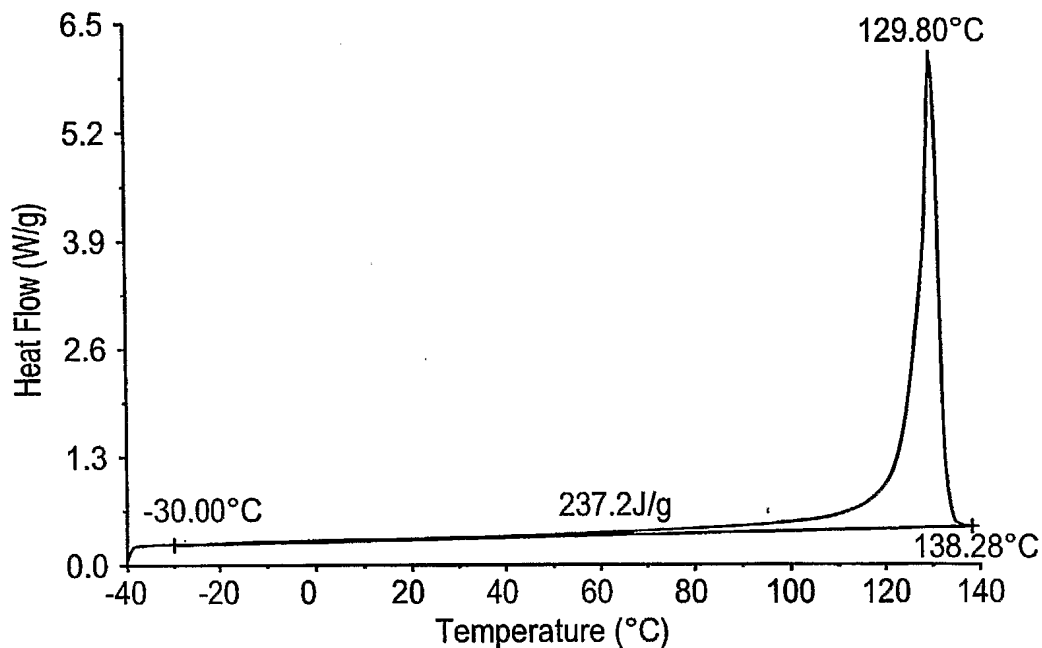
LIMS #: 77388.0
Reference: 102253-A6
Crystaf ID: 38508.0

Temp (C)	Area (%)	Statistics	
Peak 1	30.0	Tn	35.9
Peak 2	34.8	Tw	36.4
Peak 3	37.5	r	1.0
Peak 4	48.5	R	1.4
Soluble	< 30	RMS T	6.4
		Median	30.0
		SDBI	36.9



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FIG. 23
DSC Comparative B*



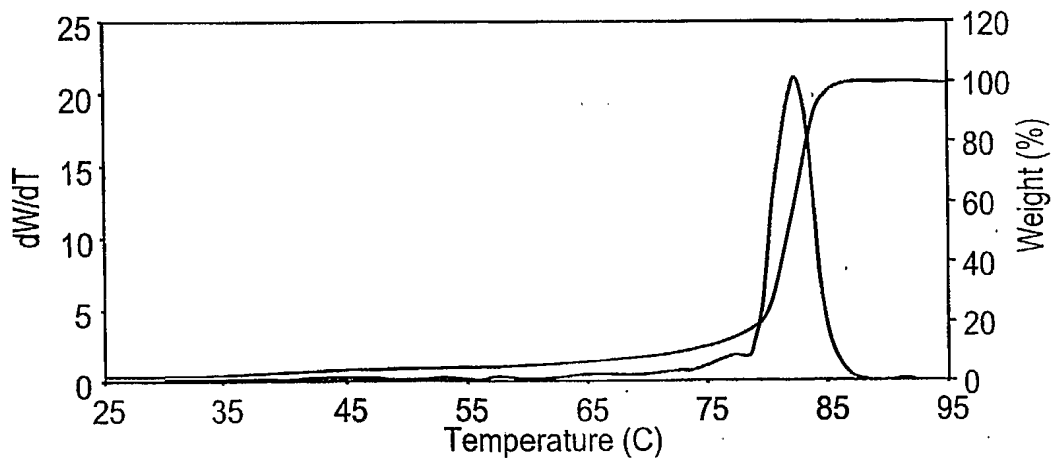
CRYSTAF Report

LIMS #: 77389.0

Reference: 102286-A1

Crystaf ID: 38538.0

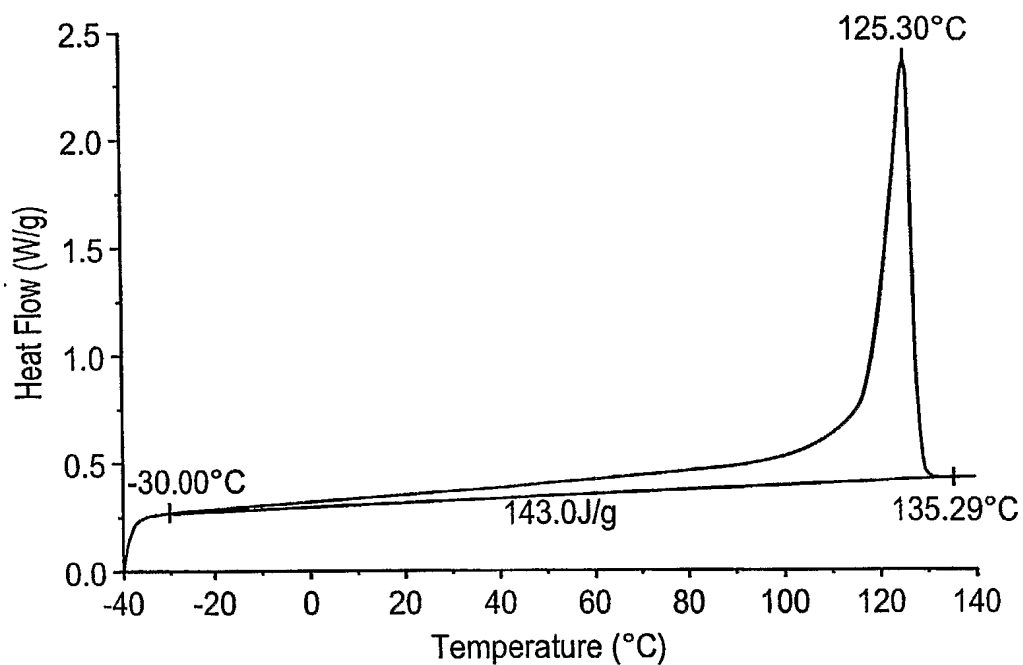
Temp (C)	Area (%)	Statistics	
Peak 1	77.6	8.7	Tn 77.5
Peak 2	82.4	83.7	Tw 79.4
Peak 3	0.0	0.0	r 1.0
Peak 4	0.0	0.0	R 2.5
Soluble	< 30	1.6	RMST 9.0
			Median 81.8
			SDBI 18.5



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FIG. 24
DSC Comparative C*

**CRYSTAF Report**

LIMS #: 77390.0

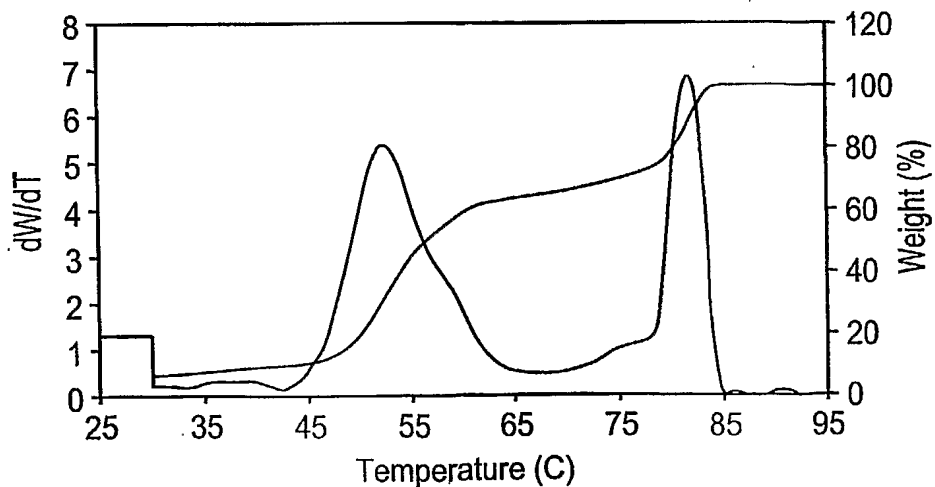
Reference: 102285-E1

Crystaf ID: 38569.0

	Temp (C)	Area (%)
Peak 1	31.6	0.7
Peak 2	38.7	2.3
Peak 3	52.4	55.5
Peak 4	81.8	34.7
Soluble	< 30	6.6

Statistics

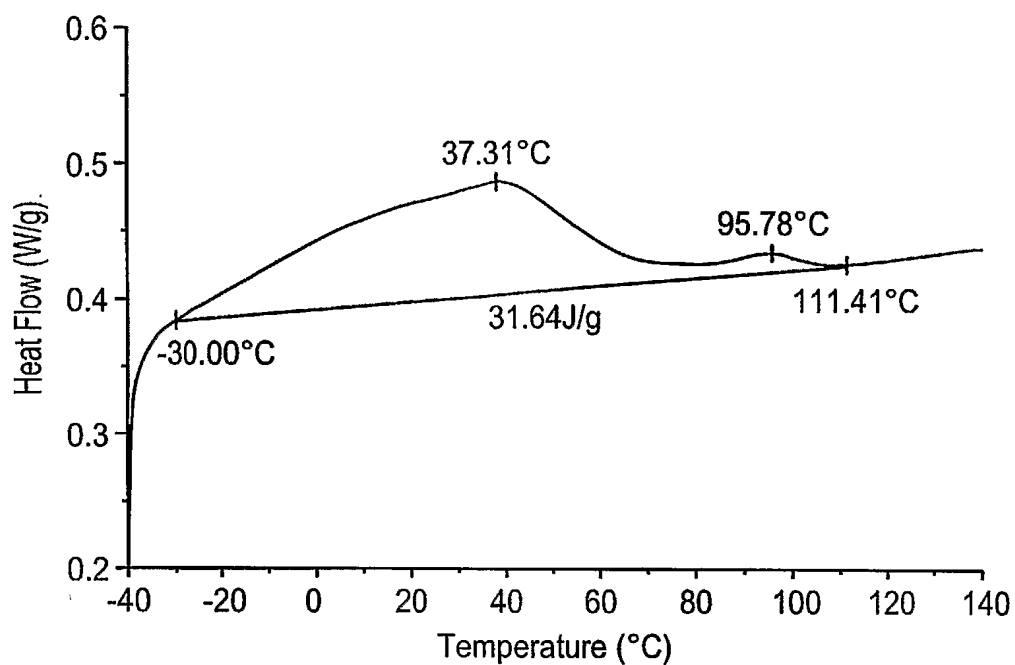
Tn	58.0
Tw	61.9
r	1.1
R	6.7
RMS T	14.9
Median	56.5
SDBI	18.1



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FIG. 25

DSC Comparative D*

**CRYSTAF Report**

LIMS #: 69534.0

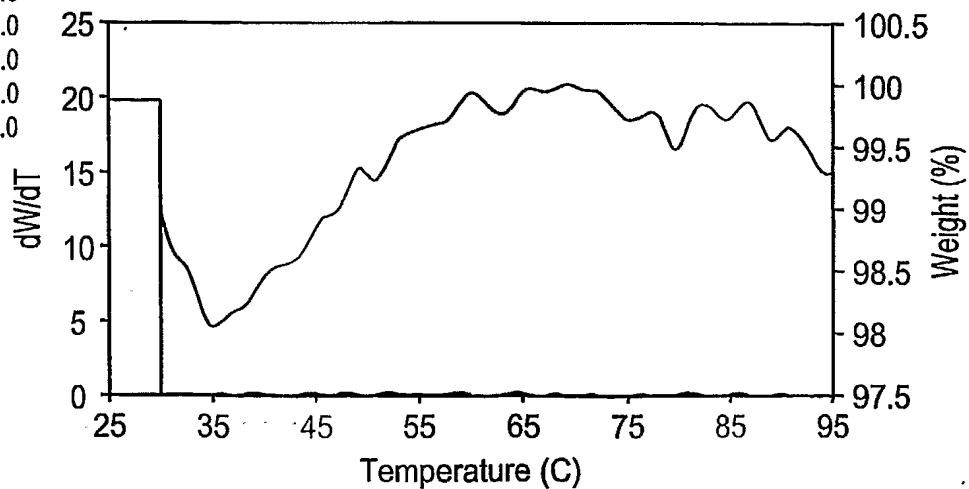
Reference: 200402166-28-2

Crystaf ID: 578-04

	Temp (C)	Area (%)
Peak 1	0.0	0.0
Peak 2	0.0	0.0
Peak 3	0.0	0.0
Peak 4	0.0	0.0
Soluble	< 30	99.0

Statistics

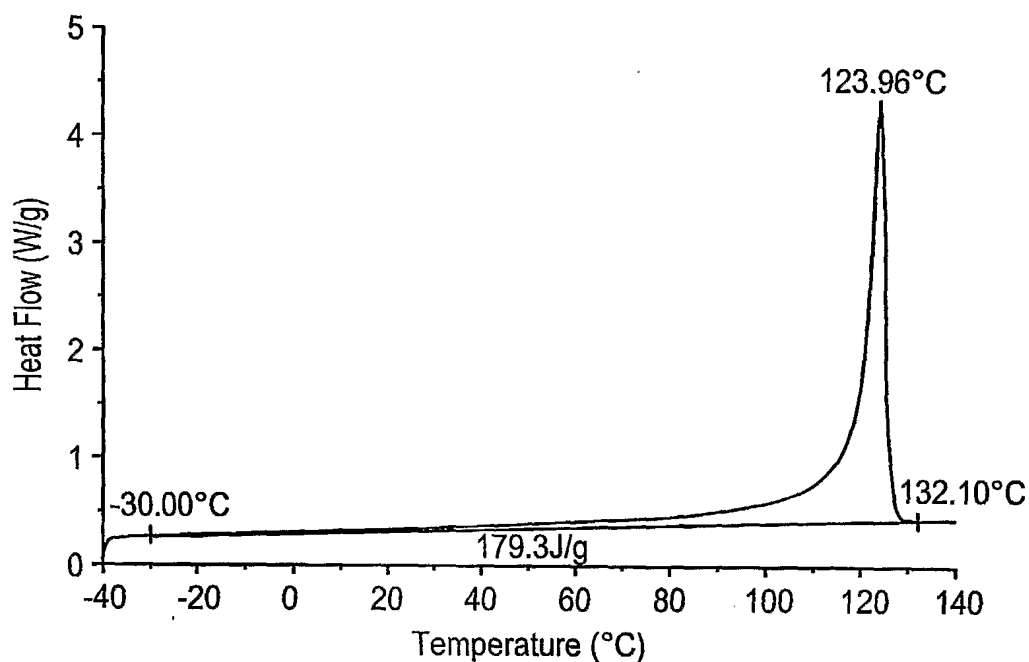
Tn	30.3
Tw	30.4
r	1.0
R	0.3
RMS T	1.4
Median	30.0
SDBI	26.7



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FIG. 26
DSC Comparative E*

**CRYSTAF Report**

LIMS #: 69535.0

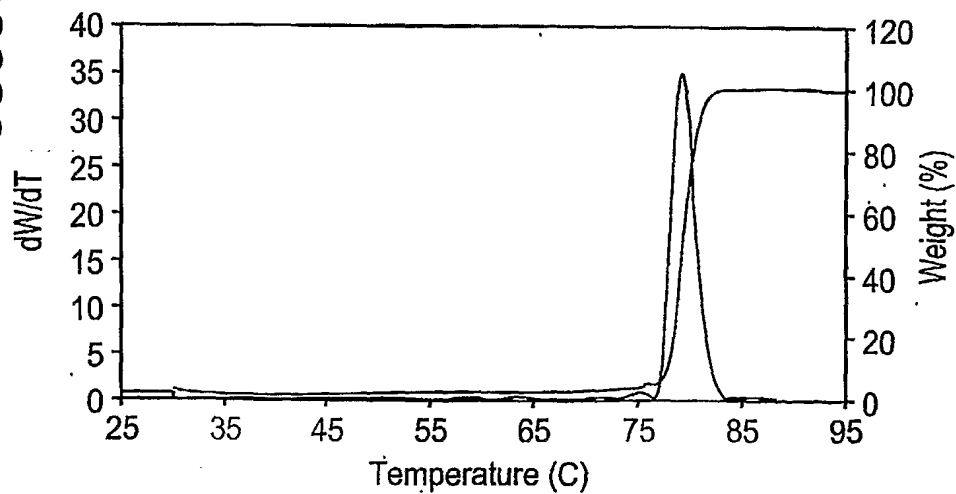
Reference: 200402166-28-3

Crystaf ID: 577-04

	Temp (C)	Area (%)
Peak 1	79.3	94.6
Peak 2	0.0	0.0
Peak 3	0.0	0.0
Peak 4	0.0	0.0
Soluble	< 30	3.0

Statistics

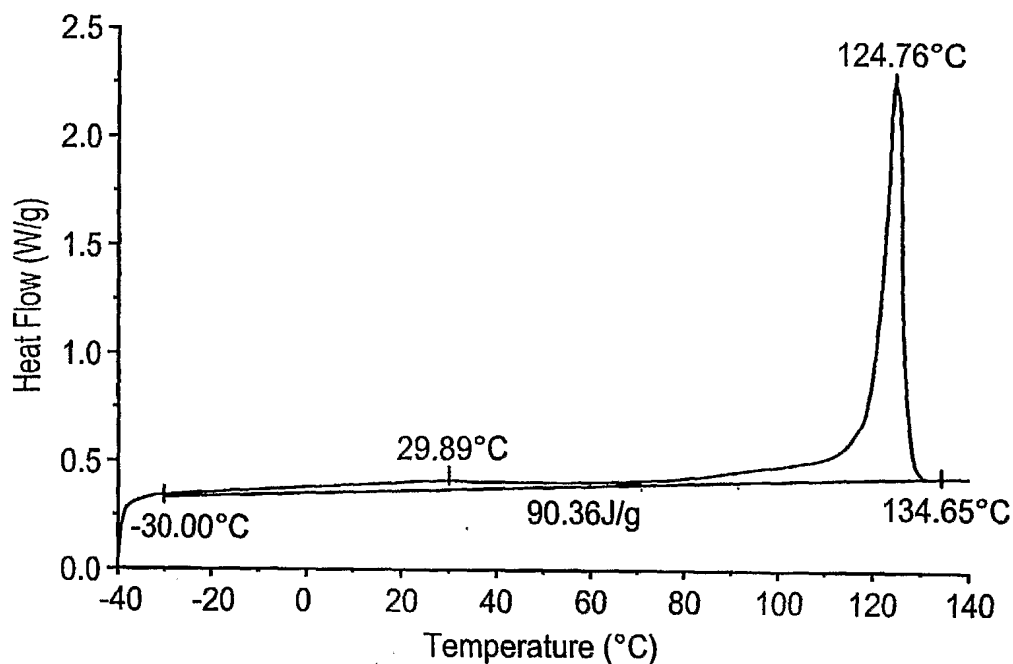
Tn	78.7
Tw	79.0
r	1.0
R	0.4
RMS T	3.4
Median	79.4
SDBI	20.7



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FIG. 27

DSC Comparative F*

**CRYSTAF Report**

LIMS #: 70870.0

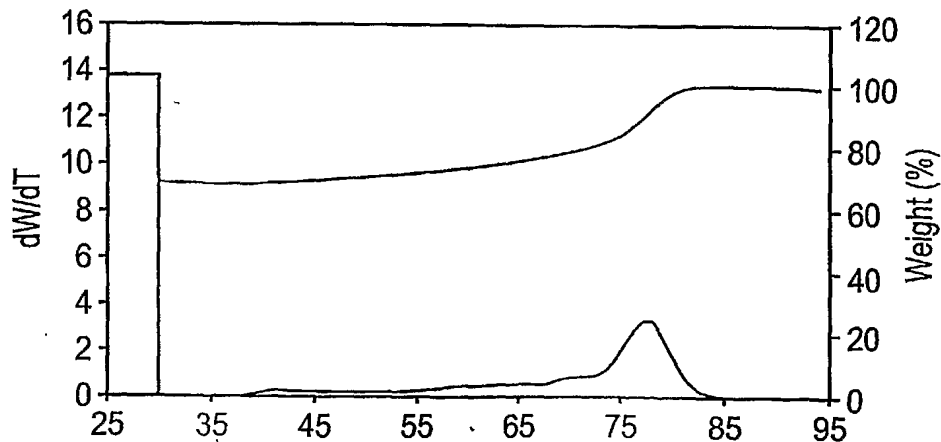
Reference: 04C22R14

Crystaf ID: 675-04

	Temp (C)	Area (%)
Peak 1	60.4	2.6
Peak 2	65.3	2.7
Peak 3	71.6	3.6
Peak 4	77.6	19.5
Soluble	< 30	68.9

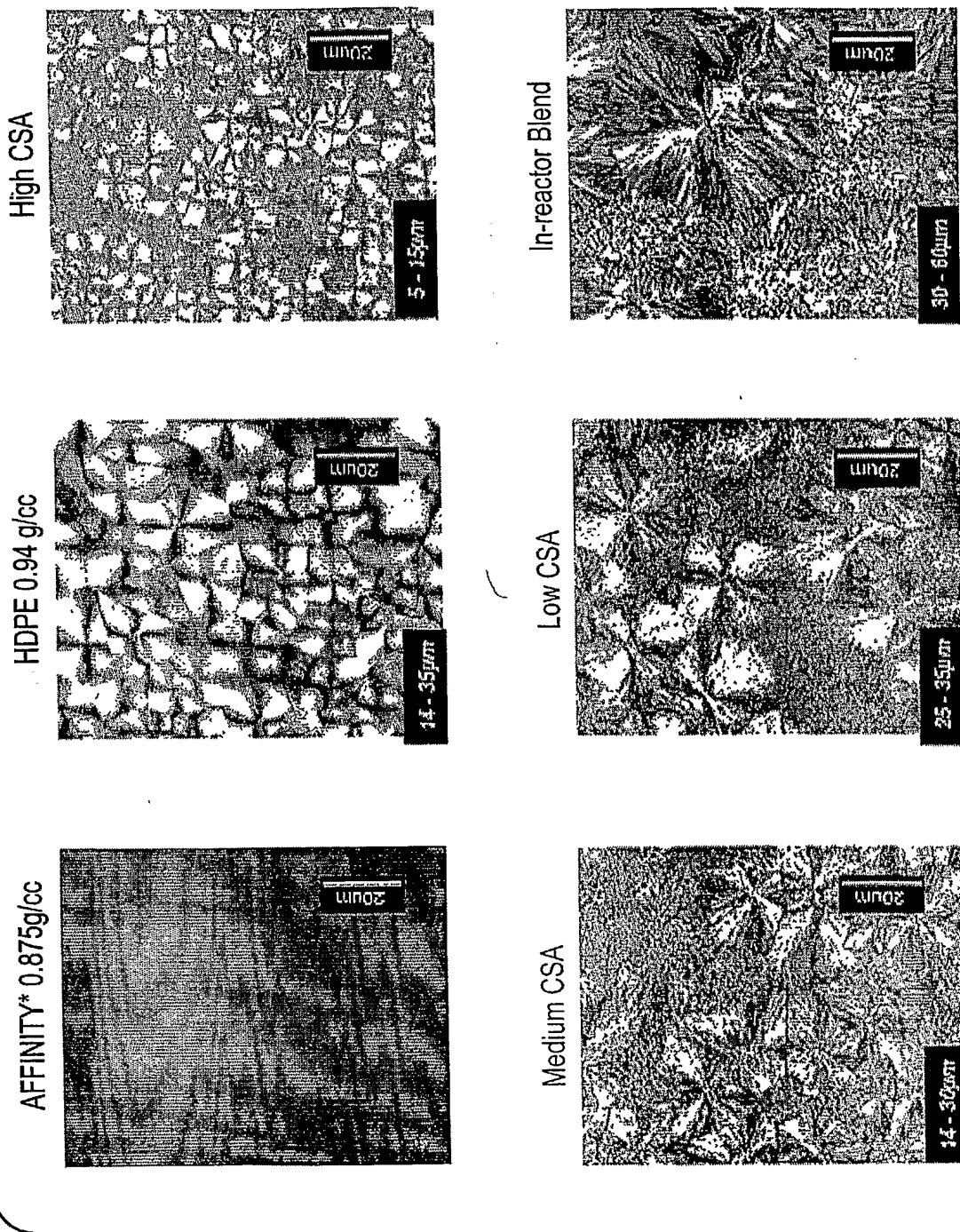
Statistics

Tn	41.0
Tw	49.3
r	1.2
R	20.2
RMS T	21.4
Median	30.0
SDBI	24.2



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FIG. 28

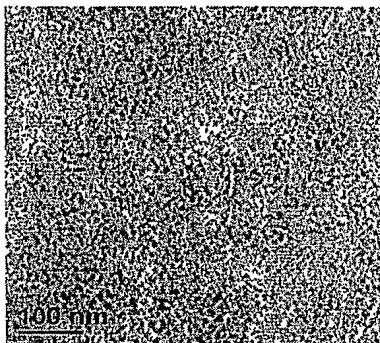


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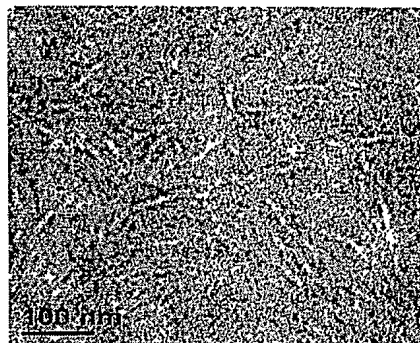
FIG. 29

High Resolution Scanning Microscopy

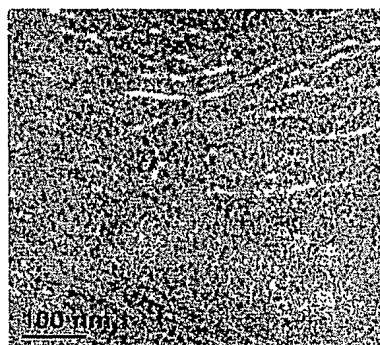
Random E/O Copolymer



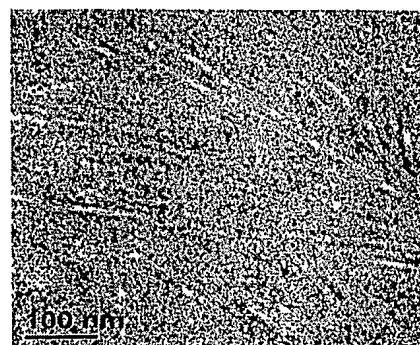
High CSA



Low CSA



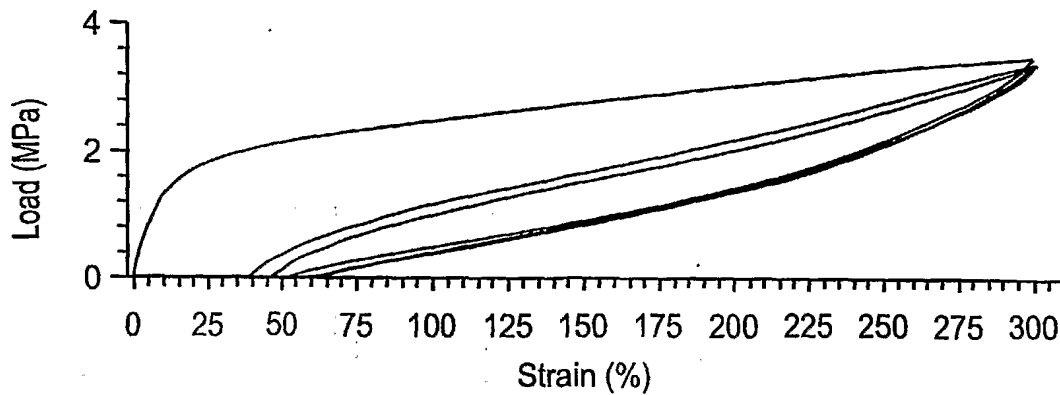
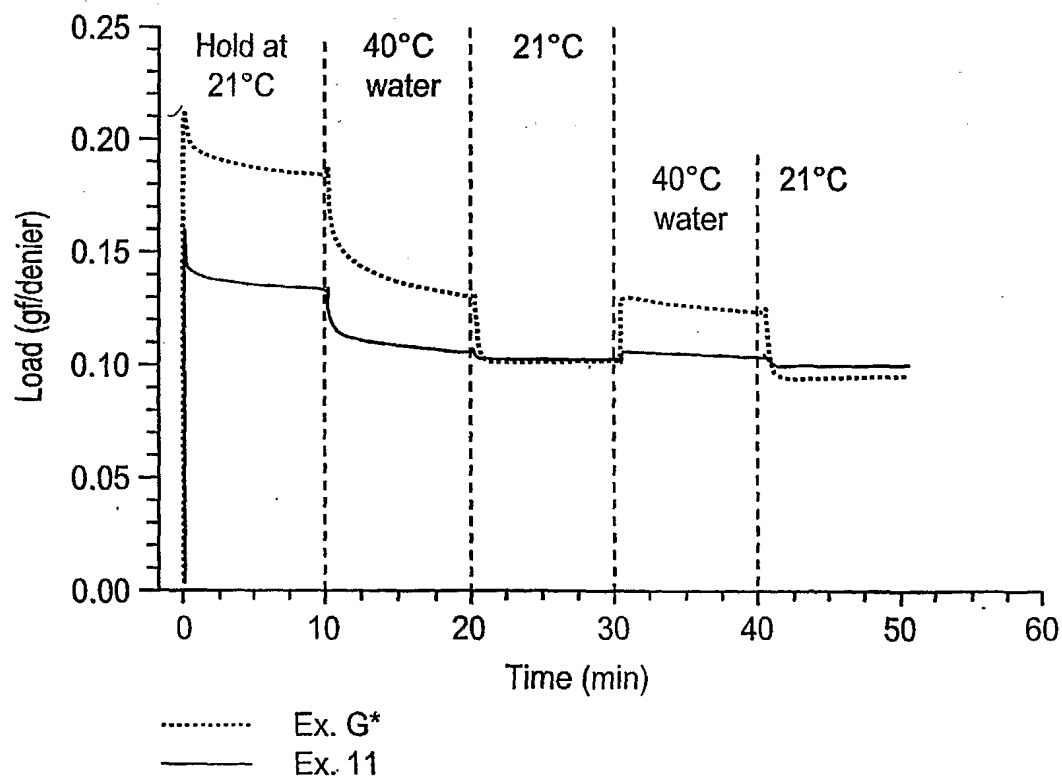
Medium CSA



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FIG. 30

300% Strain Cyclic Behavior of Fiber

**FIG. 31**

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FIG. 32

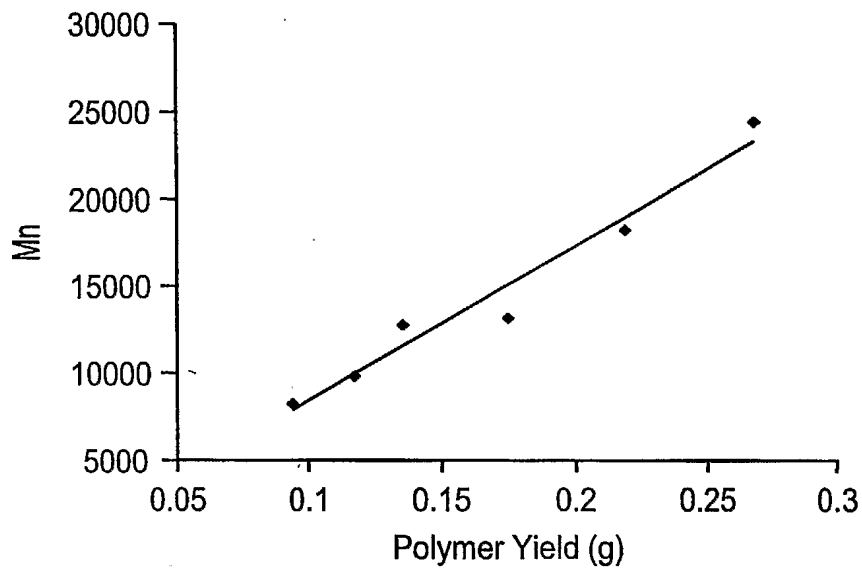
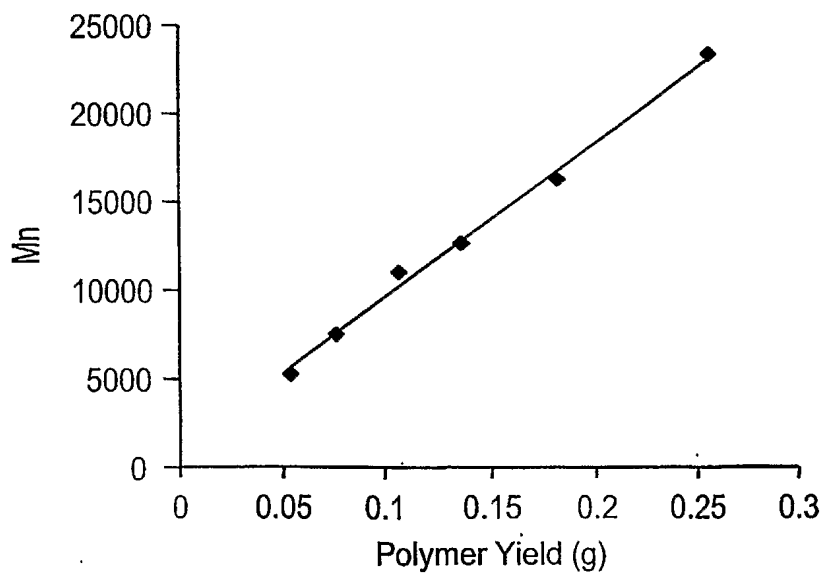


FIG. 33



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FIG. 34

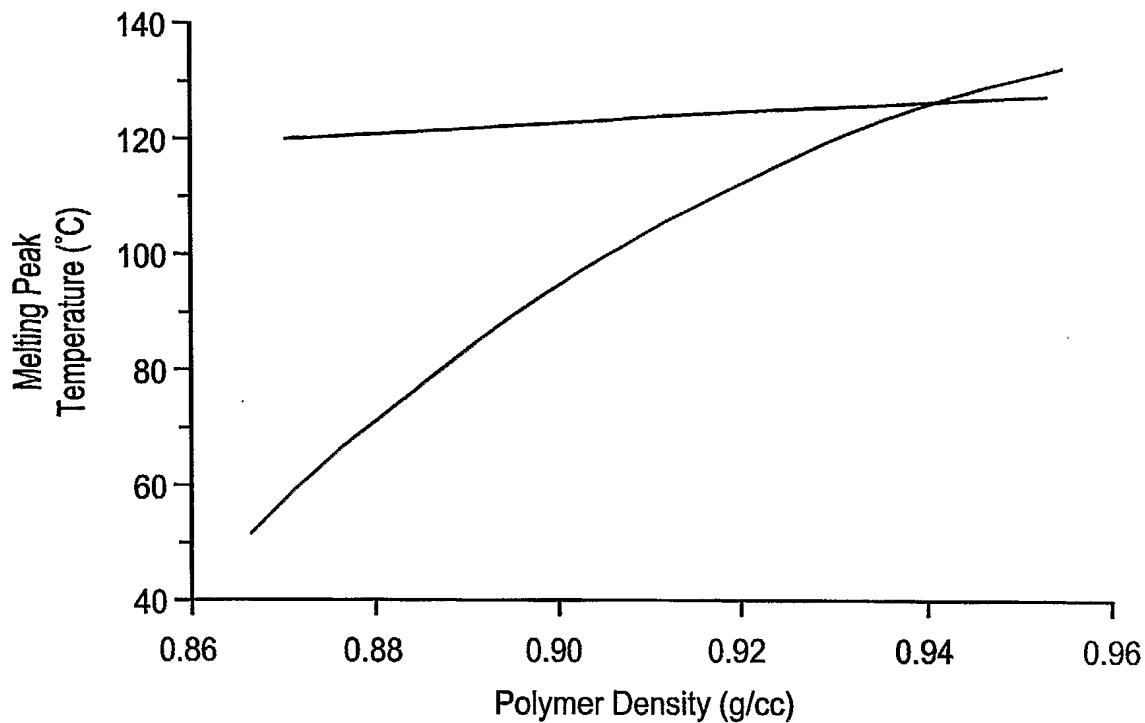
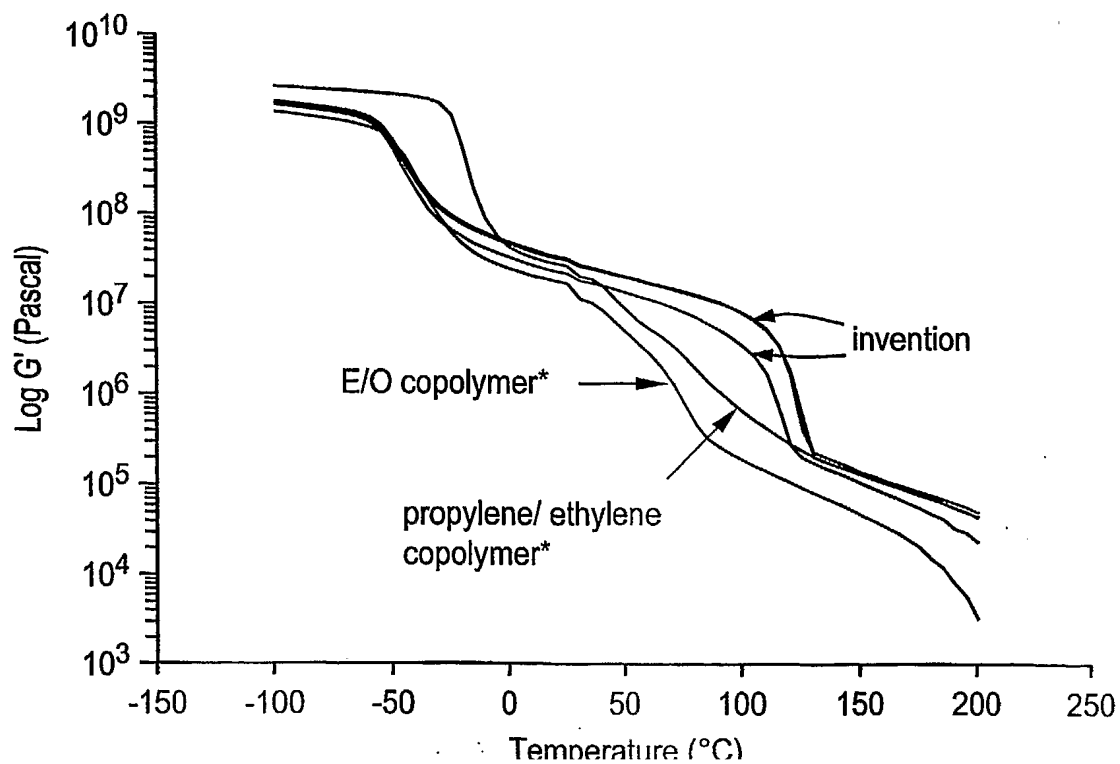


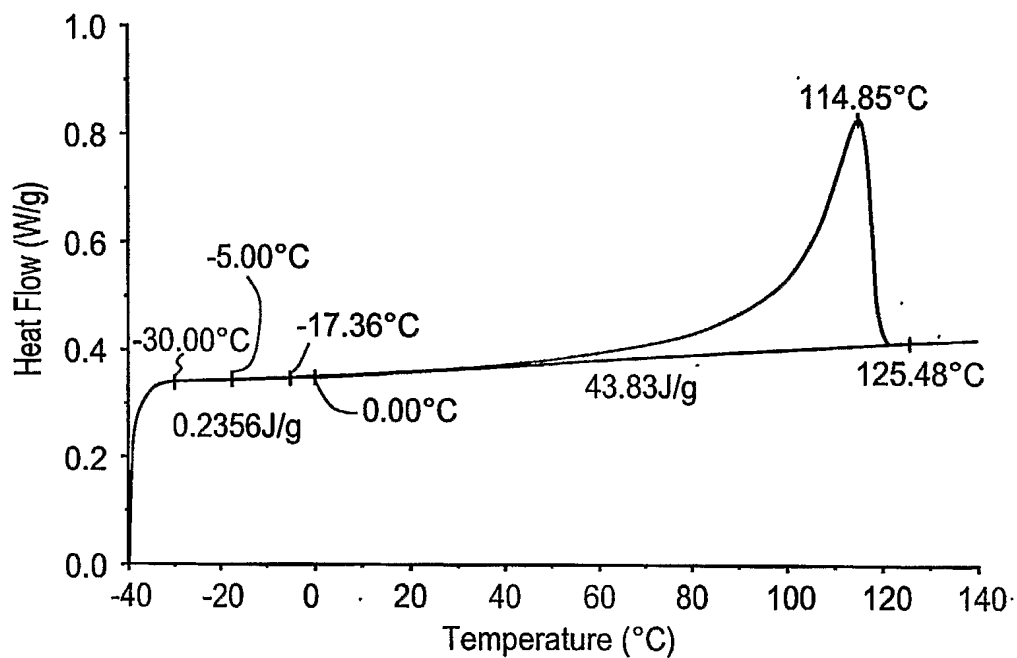
FIG. 35



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FIG. 36

DSC Example 24

**CRYSTAF Report**

LIMS #: 80053

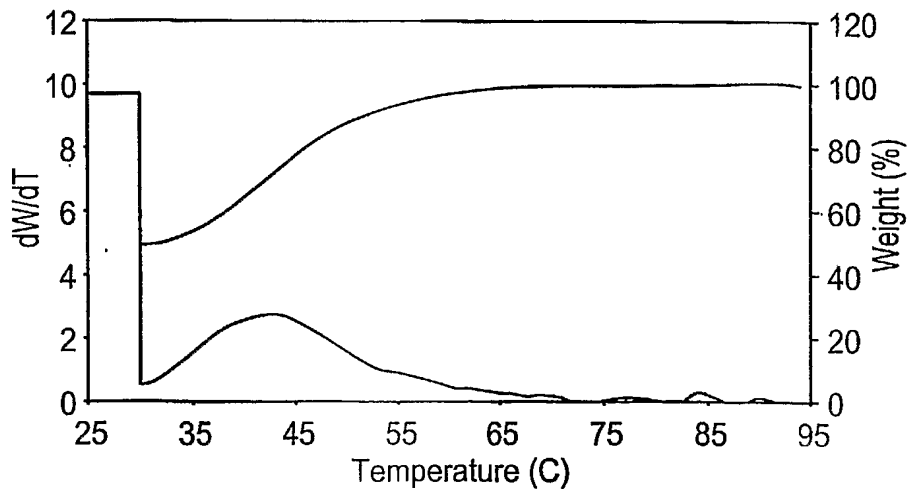
Reference: 200402602-46-9

Crystaf ID: 134-05

	Temp.(C)	Area (%)
Peak 1	42.6	48.4
Peak 2	0.0	0.0
Peak 3	0.0	0.0
Peak 4	0.0	0.0
Soluble	< 30	48.5

Statistics

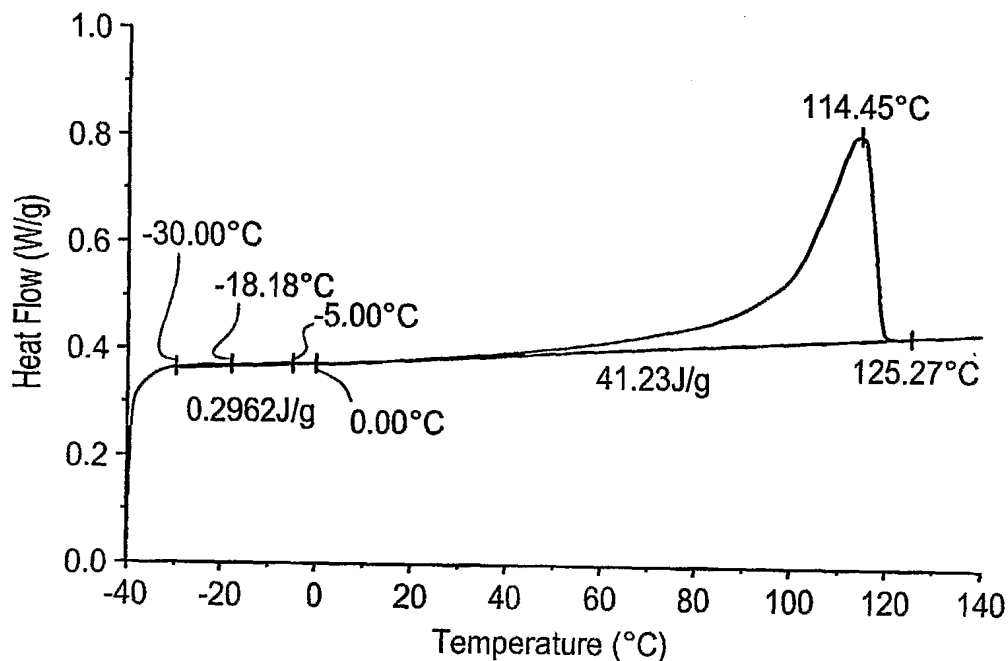
Tn	38.1
Tw	40.2
r	1.1
R	5.7
RMS T	9.9
Median	32.3
SDBI	20.3

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FIG. 37

DSC Example 25

**CRYSTAF Report**

LIMS #: 80148-1

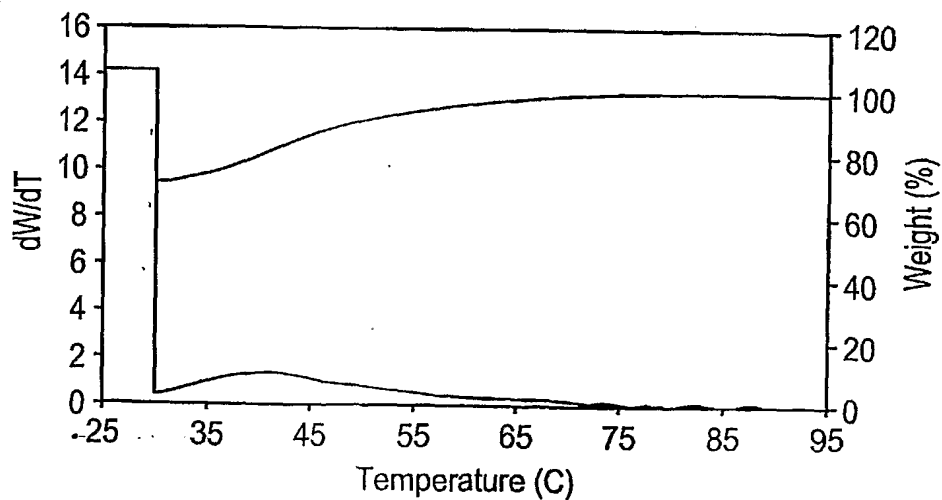
Reference: 200402602-47-1

Crystaf ID: 79-05

	Temp (C)	Area (%)
Peak 1	41.0	24.2
Peak 2	57.2	3.3
Peak 3	67.1	1.3
Peak 4	73.0	0.3
Soluble	< 30	70.8

Statistics

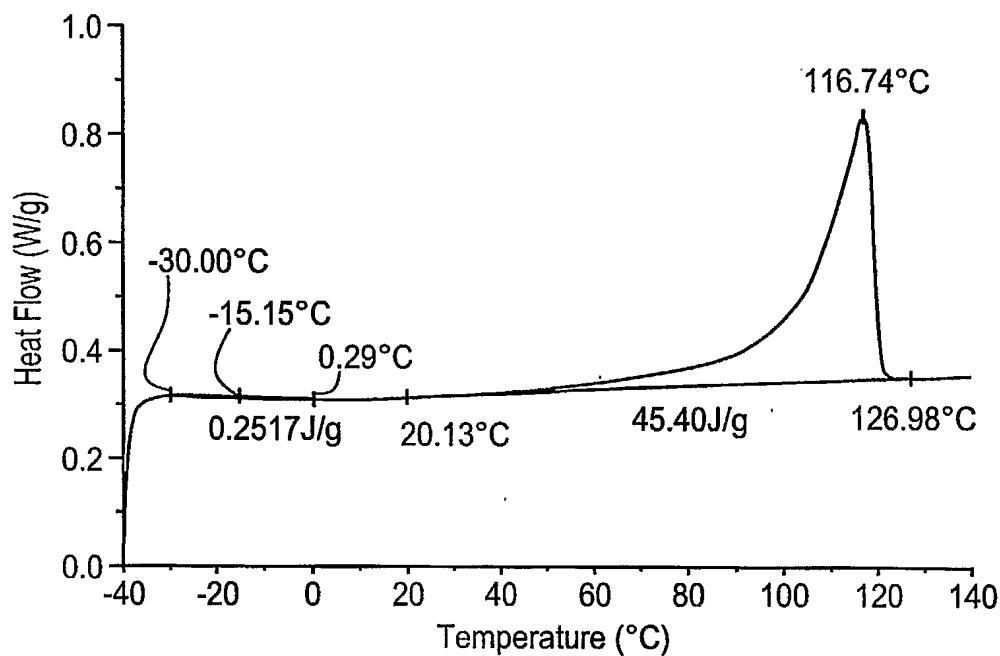
Tn	35.1
Tw	37.4
r	1.1
R	6.4
RMS T	10.5
Median	30.0
SDBI	19.5

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FIG. 38

DSC Example 26

**CRYSTAF Report**

LIMS #: 80541

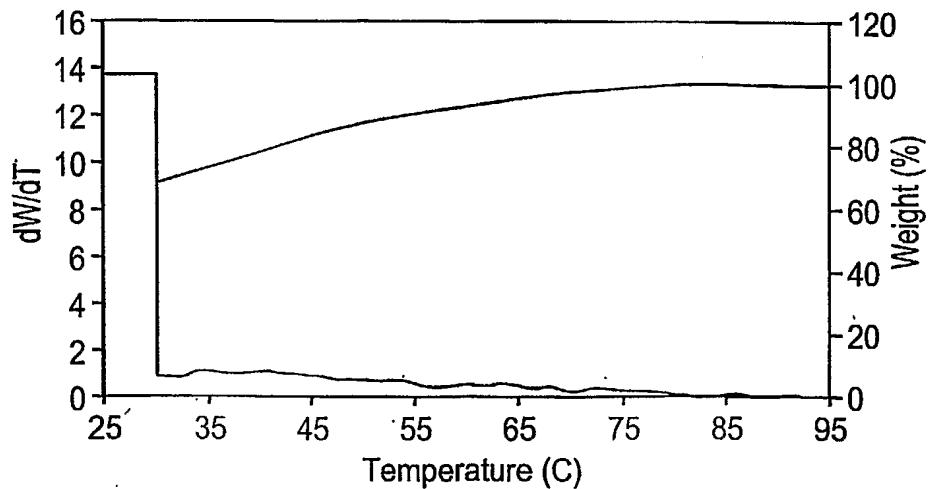
Reference: 200402602-47-3

Crystaf ID: 84-05

	Temp (C)	Area (%)
Peak 1	34.8	5.1
Peak 2	40.2	6.1
Peak 3	43.8	7.4
Peak 4	53.4	2.7
Soluble	< 30	68.6

Statistics

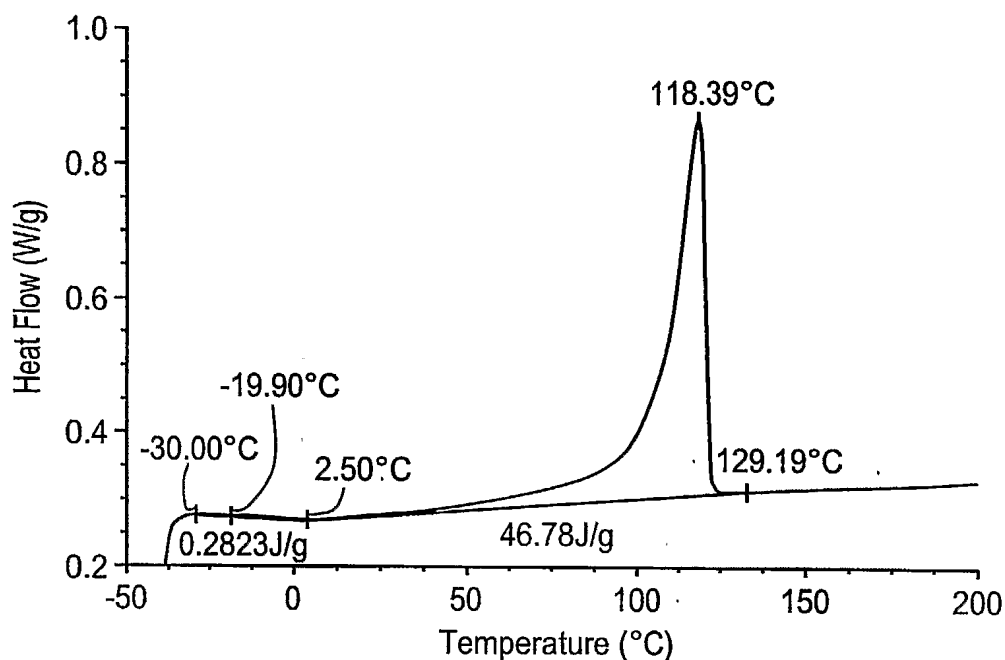
Tn	35.8
Tw	38.9
r	1.1
R	8.5
RMS T	12.8
Median	30.8
SDBI	21.9

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FIG. 39

DSC Example 27

**CRYSTAF Report**

LIMS #: 80542

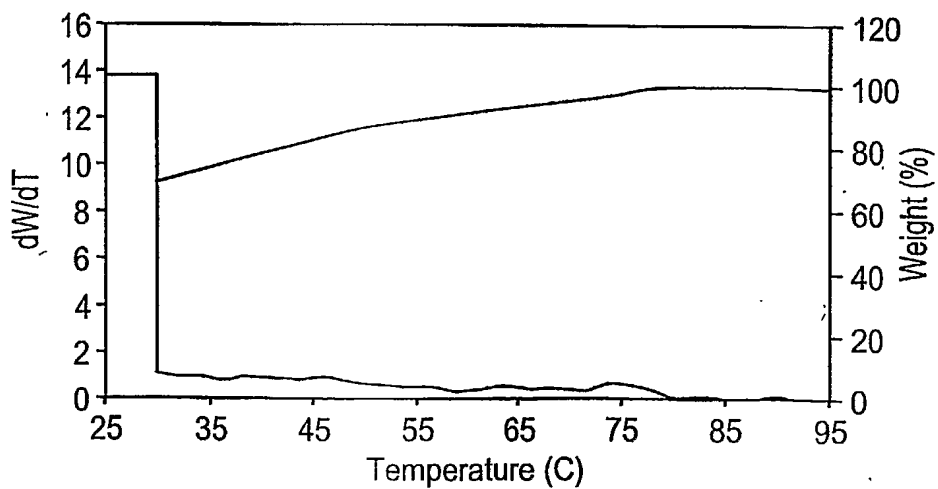
Reference: 200402602-47-4

Crystaf ID: 85-05

	Temp (C)	Area (%)
Peak 1	33.5	3.0
Peak 2	38.6	6.1
Peak 3	45.9	7.6
Peak 4	74.4	3.9
Soluble	< 30	68.9

Statistics

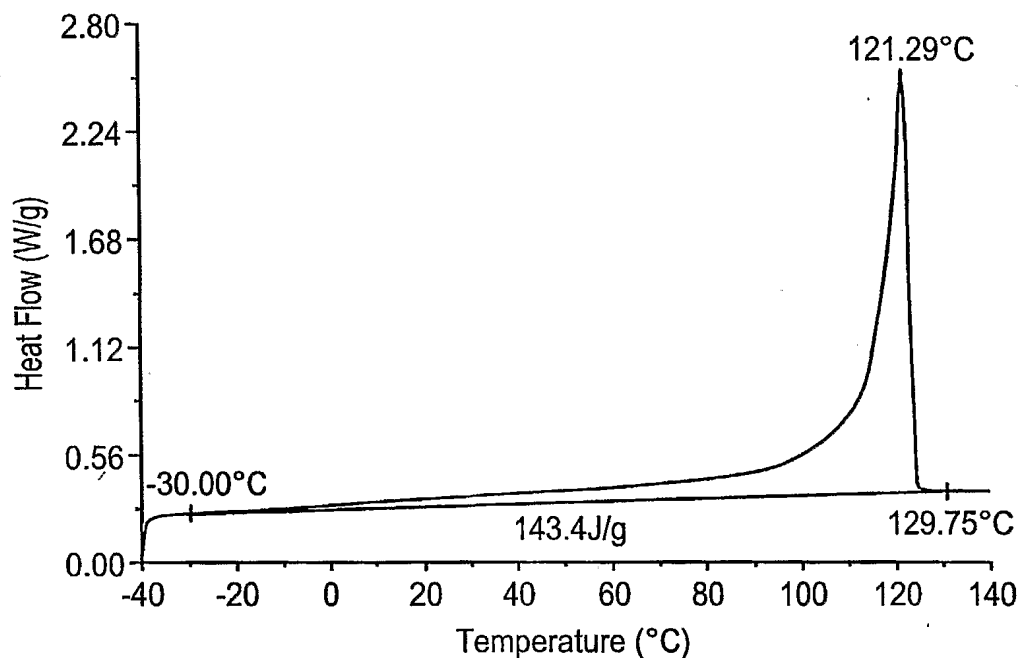
Tn	36.0
Tw	39.5
r	1.1
R	9.7
RMS T	13.9
Median	30.0
SDBI	22.9



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FIG. 40

DSC Example 28

**CRYSTAF Report**

LIMS #: 81959

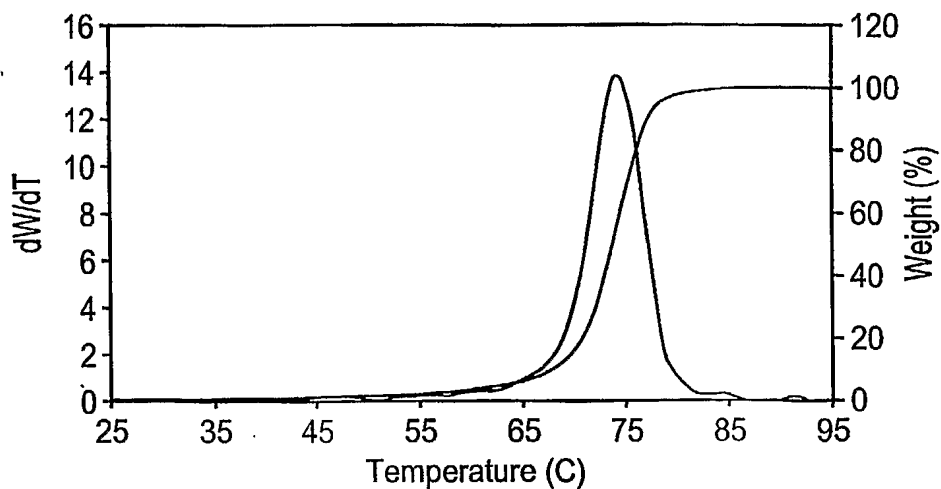
Reference: 200402602-50-6

Crystaf ID: 140-05

	Temp (C)	Area (%)
Peak 1	74.4	96.6
Peak 2	0.0	0.0
Peak 3	0.0	0.0
Peak 4	0.0	0.0
Soluble	< 30	0.4

Statistics

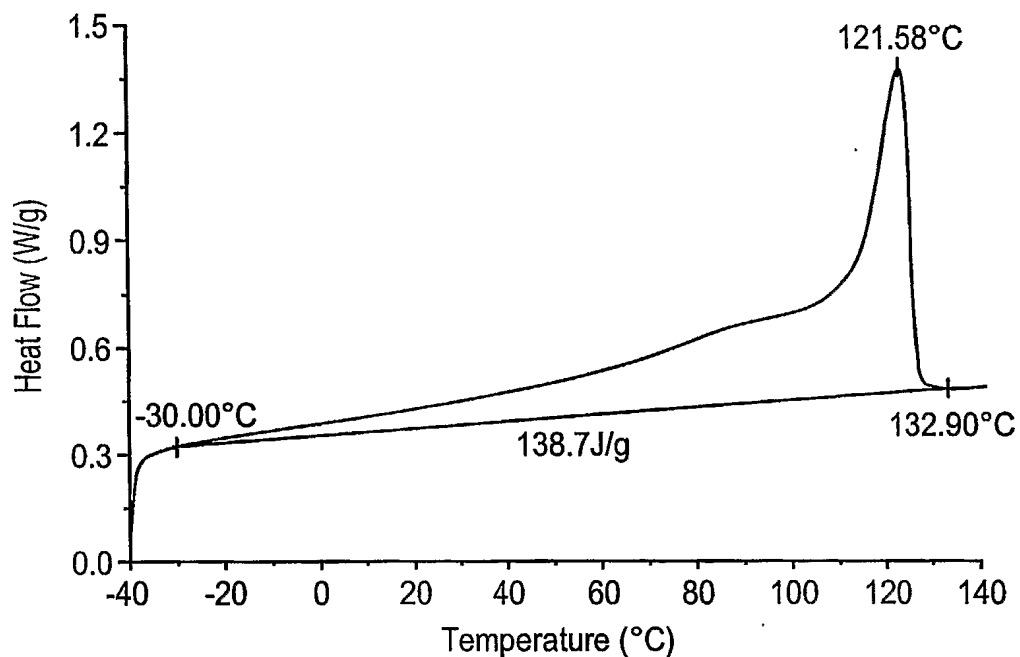
Tn	72.0
Tw	72.7
r	1.0
R	1.0
RMS T	5.8
Median	73.8
SDBI	13.1



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FIG. 41

DSC Example 29

**CRYSTAF Report**

LIMS #: 78640

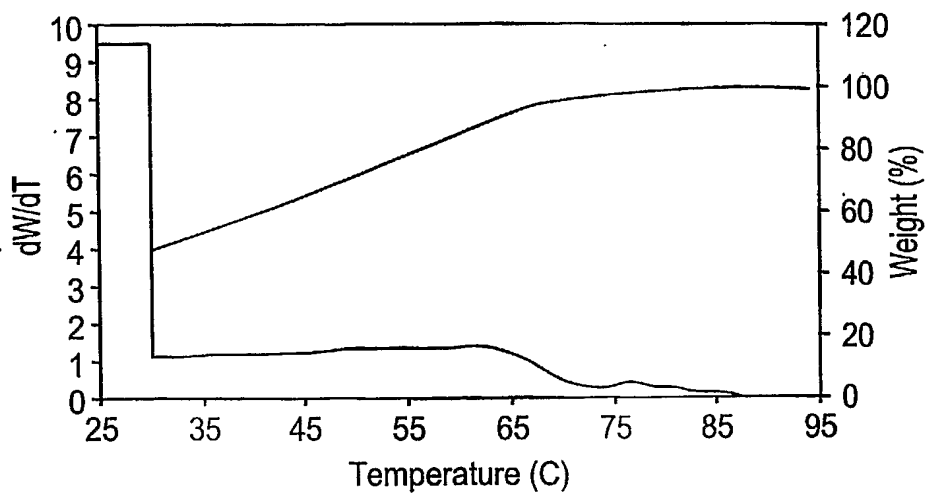
Reference Lib: 103875 B6

Crystaf ID: 143-05

	Temp (C)	Area (%)
Peak 1	35.6	11.4
Peak 2	50.5	20.0
Peak 3	61.0	17.8
Peak 4	76.6	2.0
Soluble	< 30	47.4

Statistics

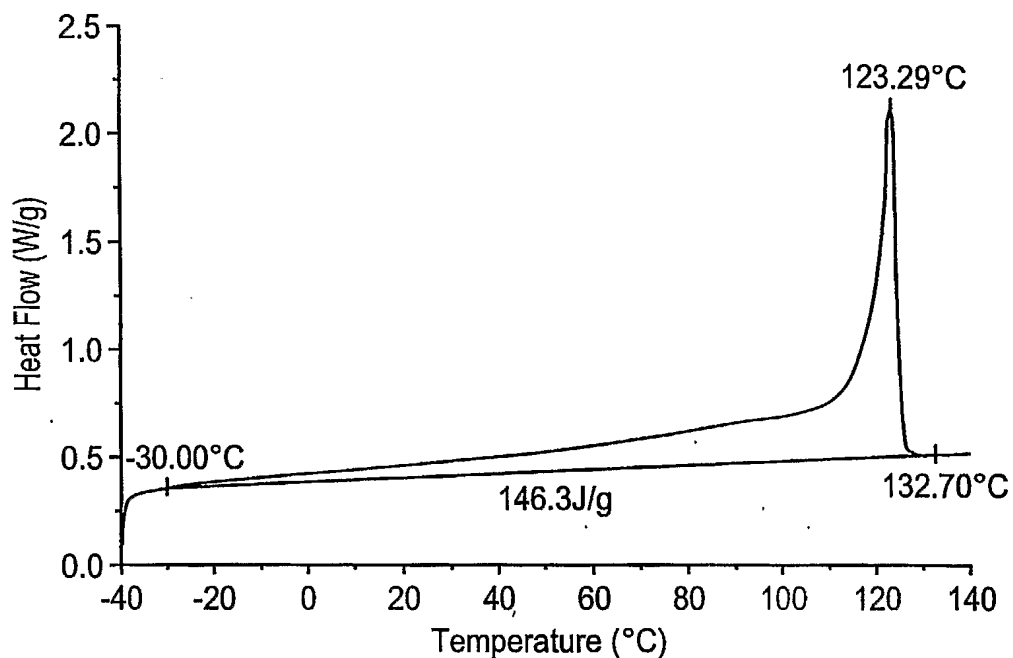
Tn	40.7
Tw	45.0
r	1.1
R	10.5
RMS T	14.6
Median	32.3
SDBI	20.8

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FIG. 42

DSC Example 30

**CRYSTAF Report**

LIMS #: 78644

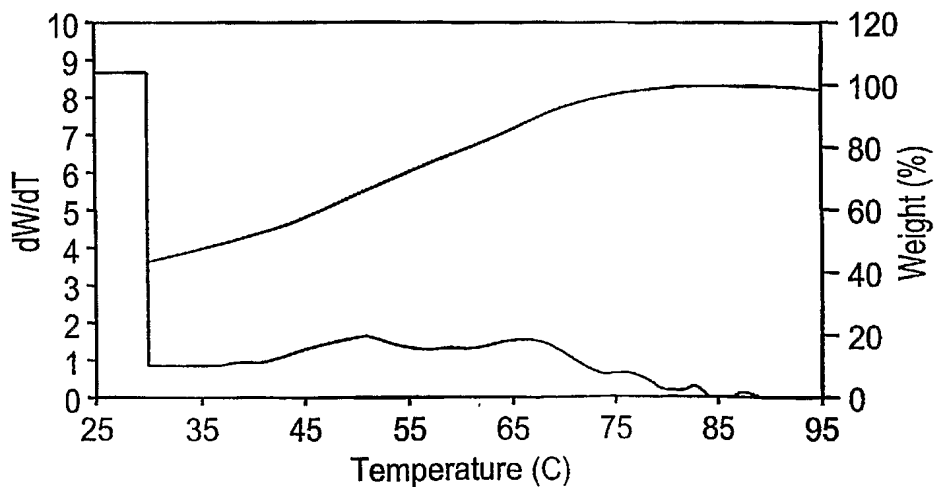
Reference Lib: 103975 C6

Crystaf ID: 145-05

	Temp (C)	Area (%)
Peak 1	34.4	2.8
Peak 2	50.6	25.4
Peak 3	59.2	6.2
Peak 4	66.1	16.6
Soluble	< 30	43.3

Statistics

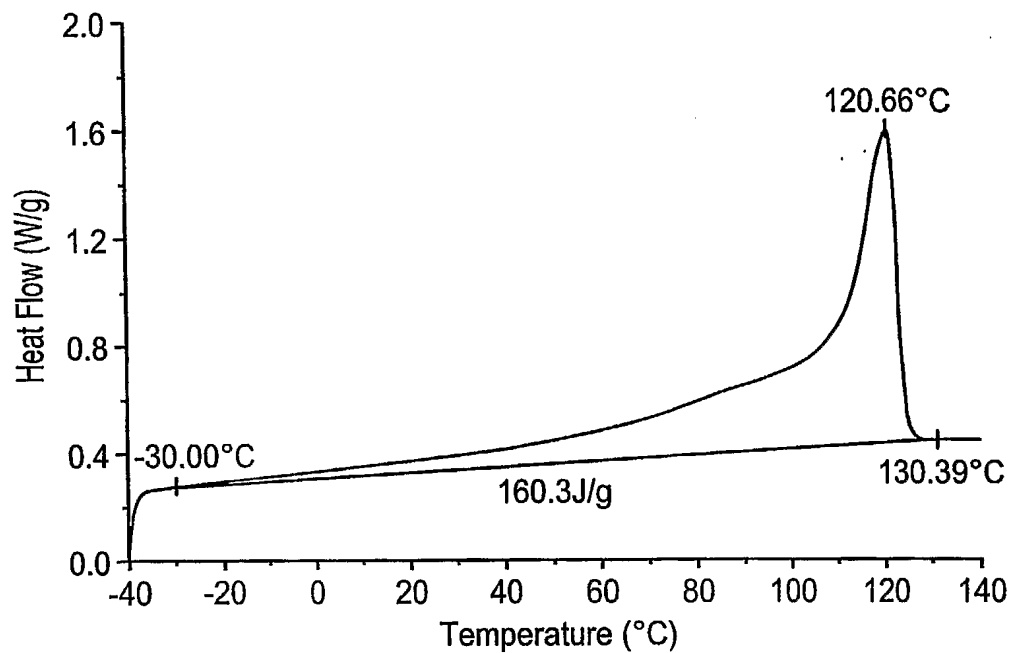
Tn	42.8
Tw	47.6
r	1.1
R	11.2
RMS T	15.2
Median	37.9
SDBI	22.0

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FIG. 43

DSC Example 31

**CRYSTAF Report**

LIMS #: 78648

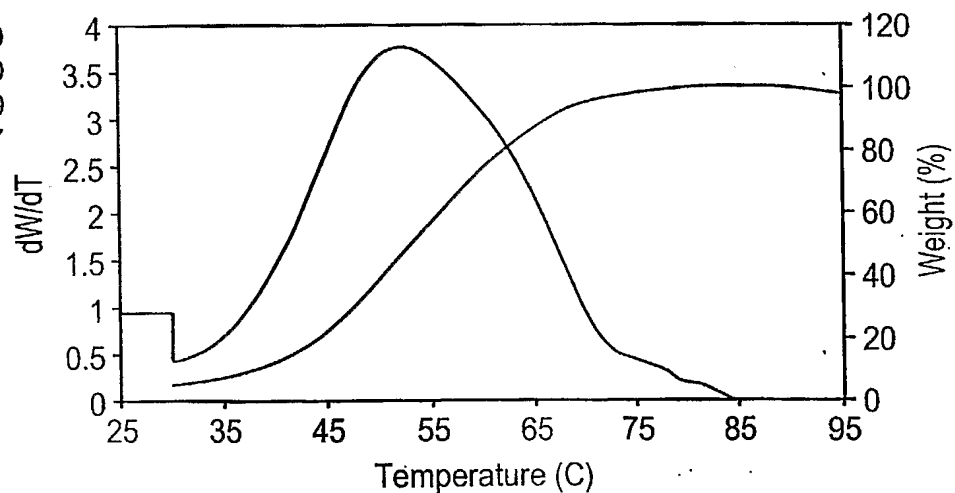
Reference Lib: 103975

Crystaf ID: 147-05

	Temp (C)	Area (%)
Peak 1	52.3	95.1
Peak 2	0.0	0.0
Peak 3	0.0	0.0
Peak 4	0.0	0.0
Soluble	< 30	4.7

Statistics

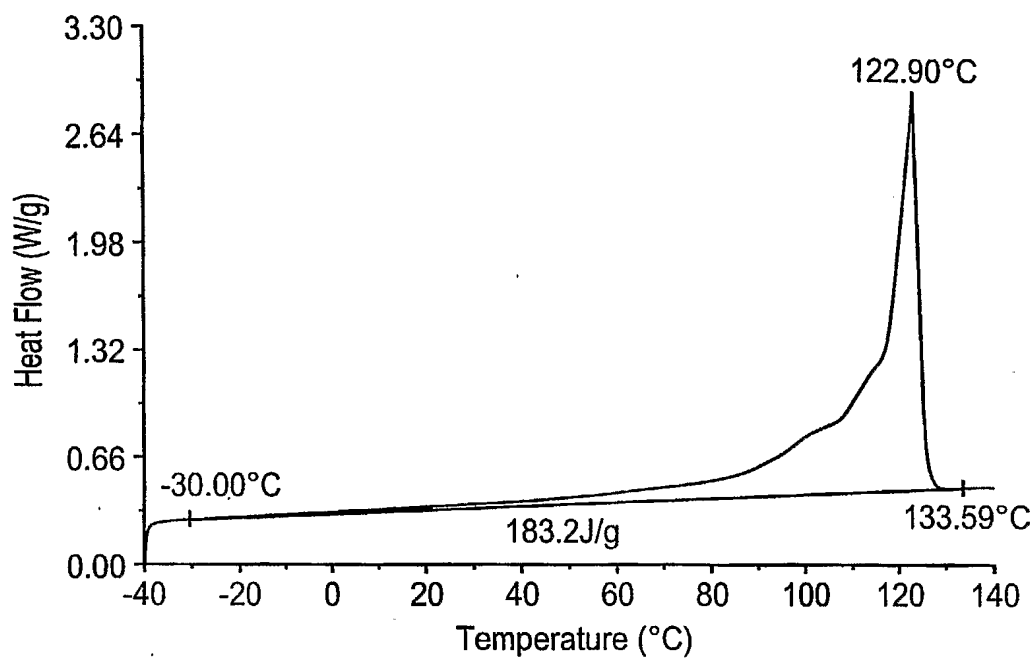
Tn	50.9
Tw	53.0
r	1.0
R	4.1
RMS T	9.8
Median	53.2
SDBI	18.8

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FIG. 44

DSC Example 32

**CRYSTAF Report**

LIMS #: 78651

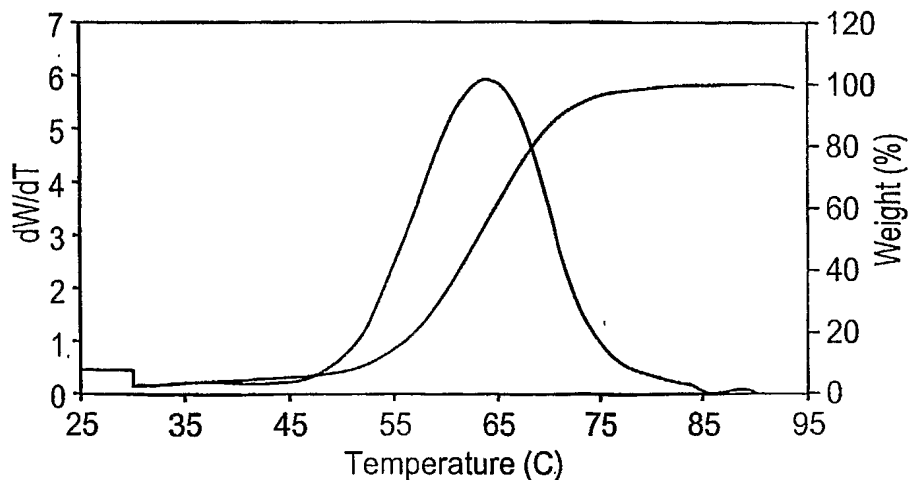
Reference: Lib 103975 E6

Crystaf ID: 148-05

	Temp (C)	Area (%)
Peak 1	37.7	2.2
Peak 2	64.1	95.2
Peak 3	0.0	0.0
Peak 4	0.0	0.0
Soluble	< 30	2.3

Statistics

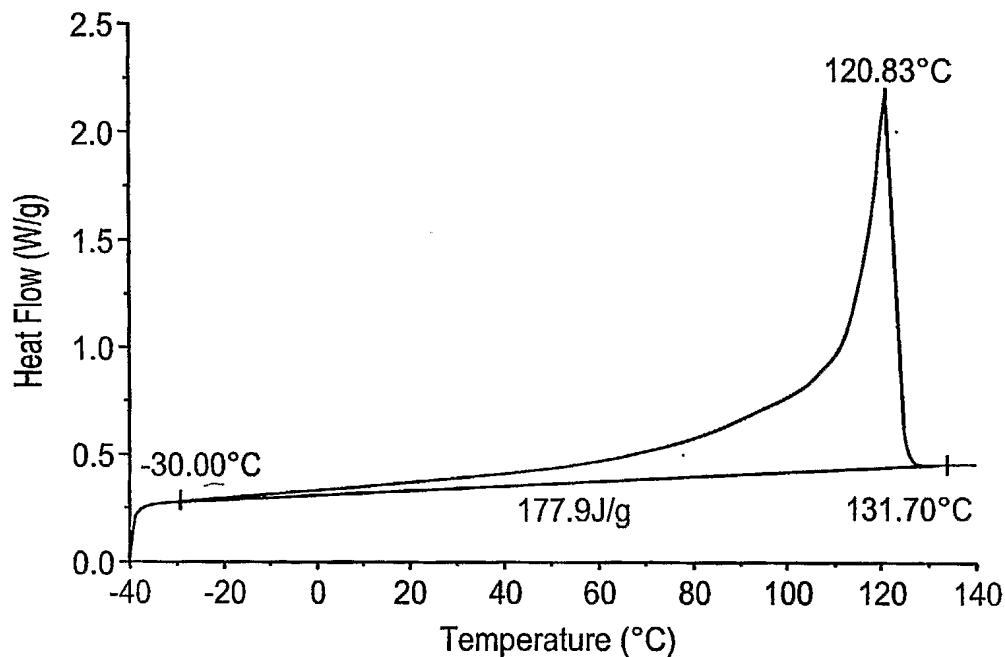
Tn	60.8
Tw	62.3
r	1.0
R	2.5
RMS T	8.4
Median	63.2
SDBI	14.6

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FIG. 45

DSC Example 33

**CRYSTAF Report**

LIMS #: 78659

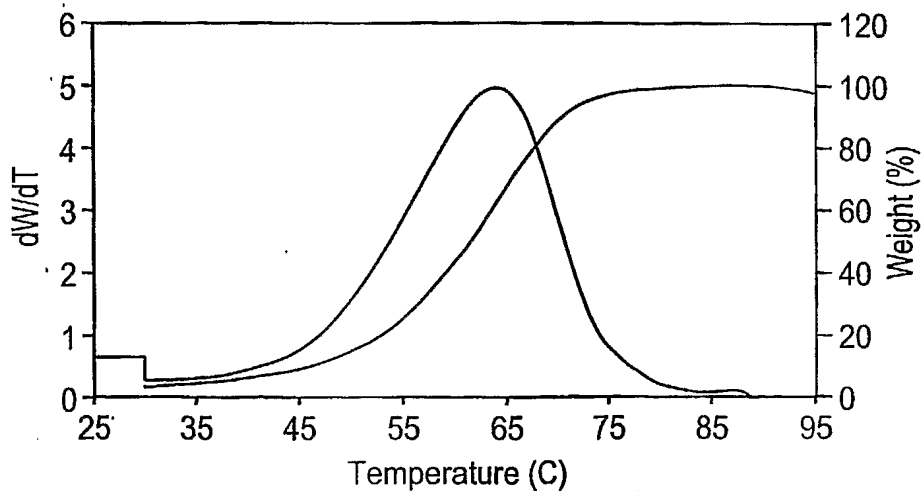
Reference: Lib 103975 G6

Crystaf ID: 152-05

	Temp (C)	Area (%)
Peak 1	64.1	95.7
Peak 2	0.0	0.0
Peak 3	0.0	0.0
Peak 4	0.0	0.0
Soluble	< 30	3.2

Statistics

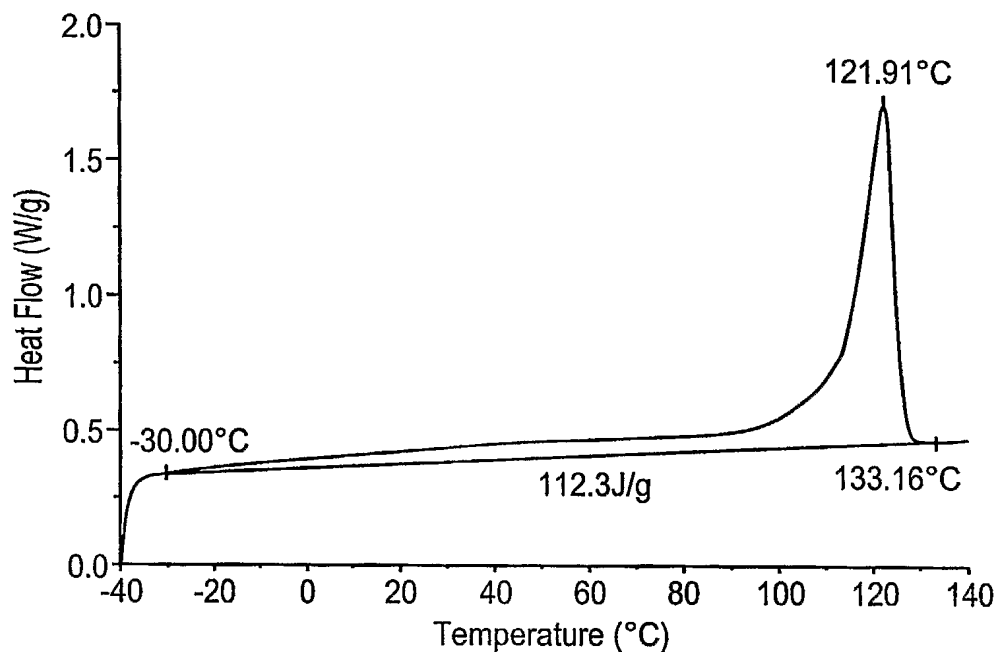
Tn	57.9
Tw	59.9
r	1.0
R	3.4
RMS T	9.4
Median	61.5
SDBI	16.9

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FIG. 46

DSC Comparative M*

**CRYSTAF Report**

LIMS #: 78637

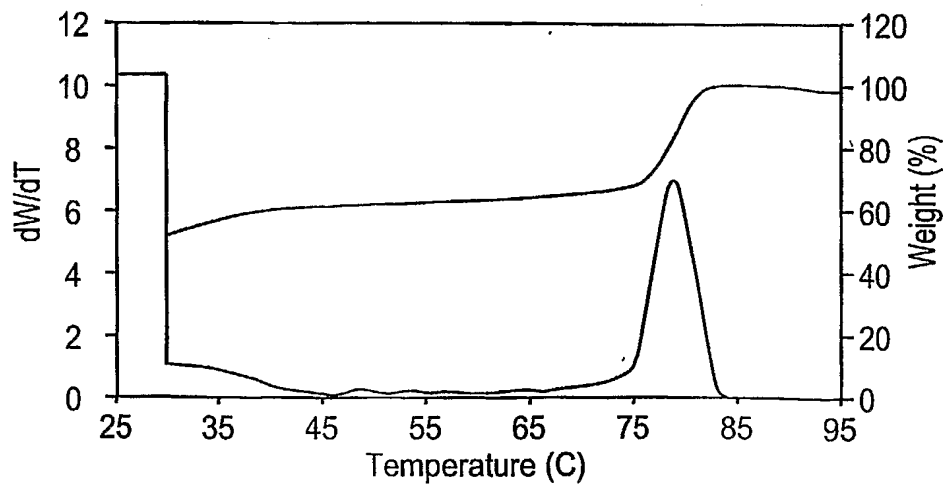
Reference: Lib 103875 B1

Crystaf ID: 142-05

	Temp (C)	Area (%)
Peak 1	30.0	9.5
Peak 2	48.5	0.9
Peak 3	53.9	0.6
Peak 4	78.9	36.1
Soluble	< 30	51.8

Statistics

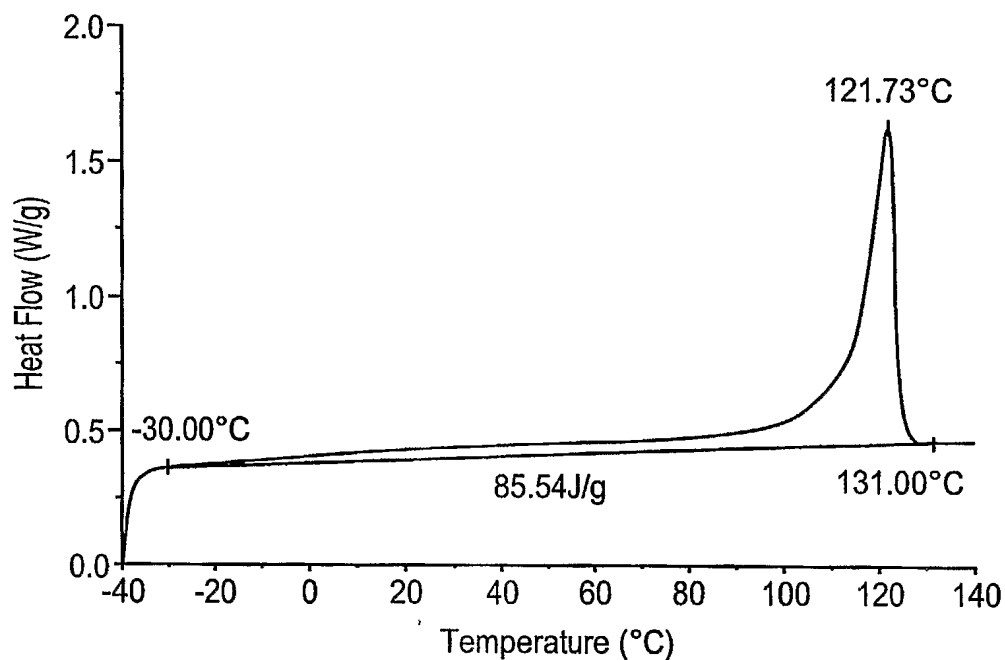
Tn	44.7
Tw	54.5
r	1.2
R	21.9
RMS T	22.9
Median	30.0
SDBI	25.2

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FIG. 47

DSC Comparative N*

**CRYSTAF Report**

LIMS #: 78641

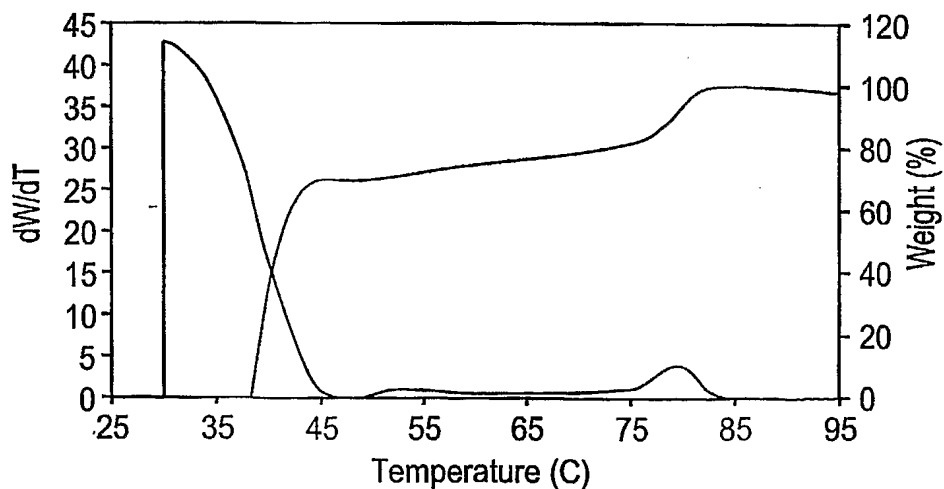
Reference: Lib 103875 C1

Crystaf ID: 144-05

	Temp (C)	Area (%)
Peak 1	30.0	69.7
Peak 2	53.2	5.9
Peak 3	79.7	24.4
Peak 4	0.0	0.0
Soluble	< 30	0.0

Statistics

Tn	41.0
Tw	42.4
r	1.0
R	3.4
RMS T	11.0
Median	41.0
SDBI	22.4

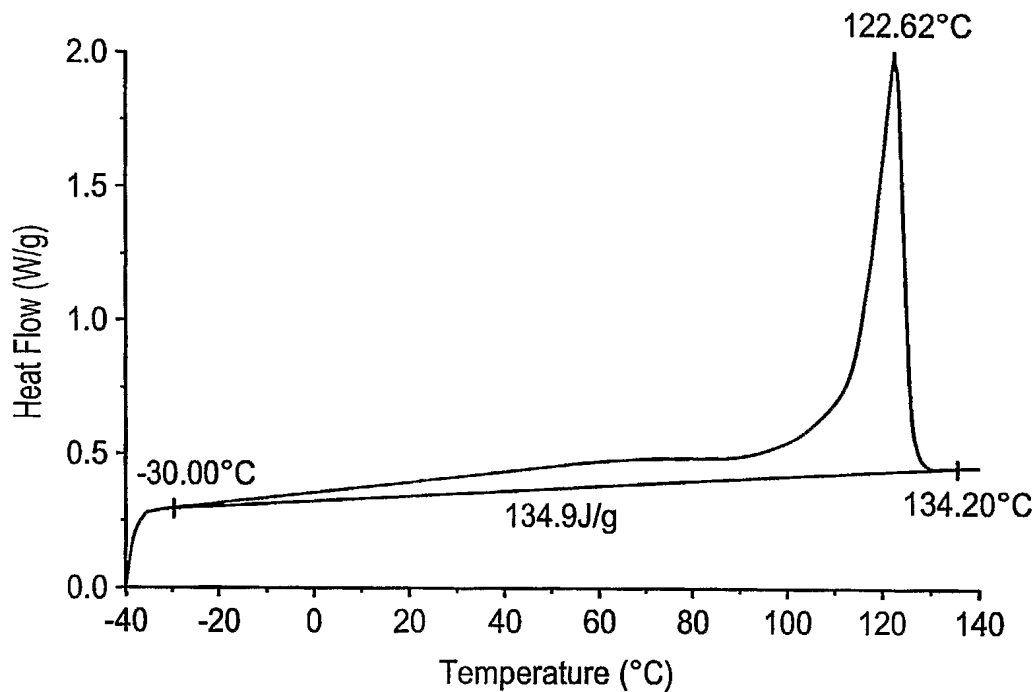


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FIG. 48

DSC Comparative 0*

**CRYSTAF Report**

LIMS #: 78645

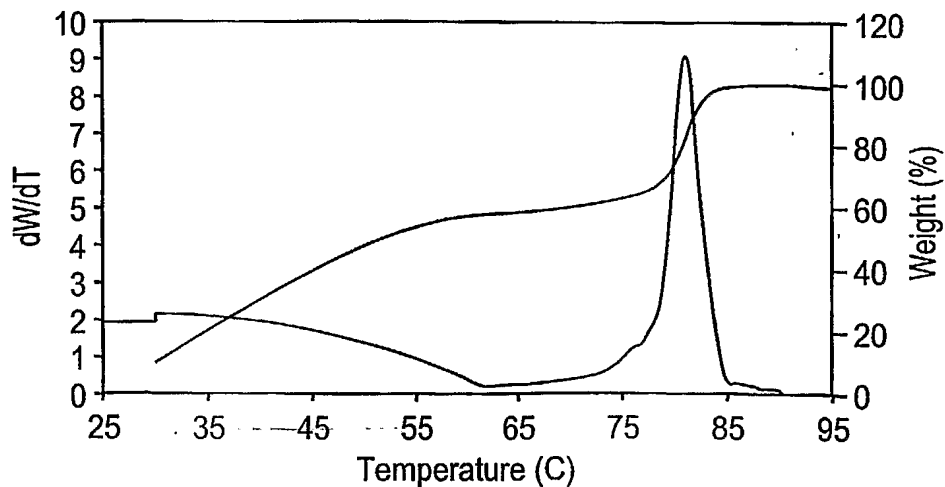
Reference: 103975 D1

Crystaf ID: 146-05

	Temp (C)	Area (%)
Peak 1	30.0	48.1
Peak 2	65.5	1.0
Peak 3	81.1	40.4
Peak 4	85.9	0.7
Soluble	< 30	9.7

Statistics

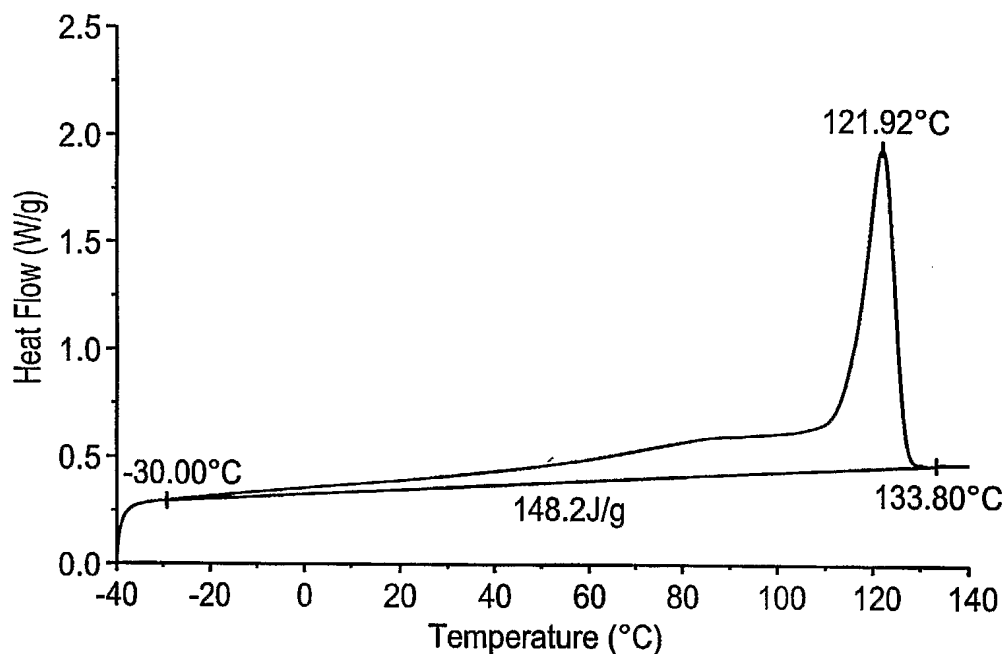
Tn	50.8
Tw	58.1
r	1.1
R	14.3
RMS T	20.1
Median	51.7
SDBI	22.3

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FIG. 49

DSC Comparative P*

**CRYSTAF Report**

LIMS #: 78657

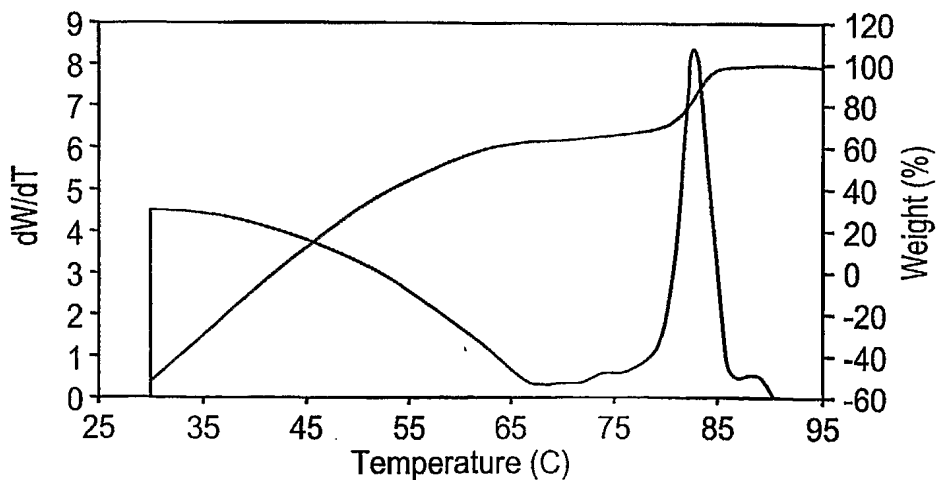
Reference: 103975 G4

Crystaf ID: 151-05

	Temp (C)	Area (%)
Peak 1		
Peak 2		
Peak 3		
Peak 4	82.8	33.3
Soluble	< 30	

Statistics

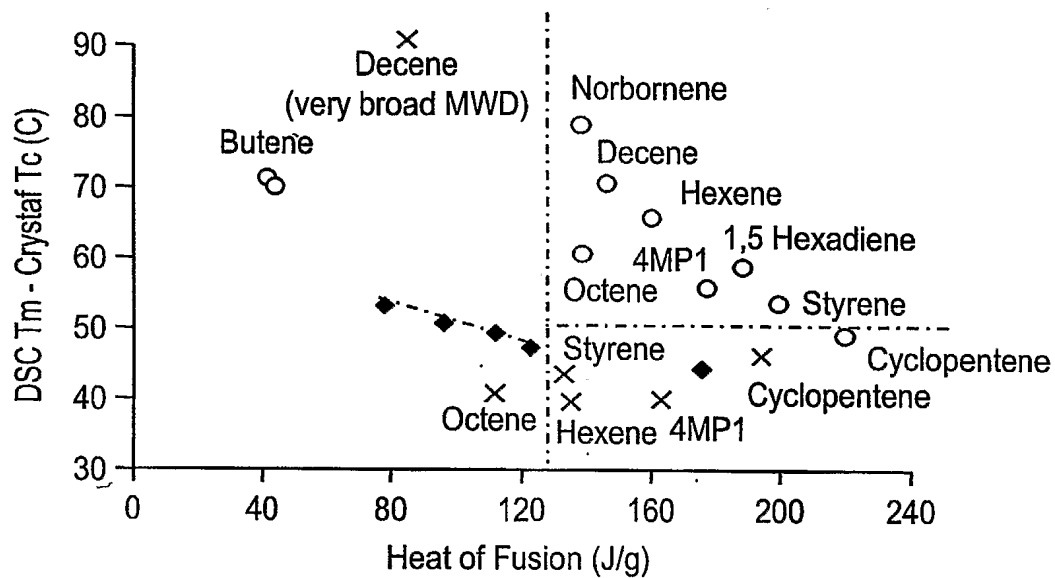
Tn	54.8
Tw	58.1
r	1.1
R	6.0
RMS T	15.8
Median	57.3
SDBI	24.6



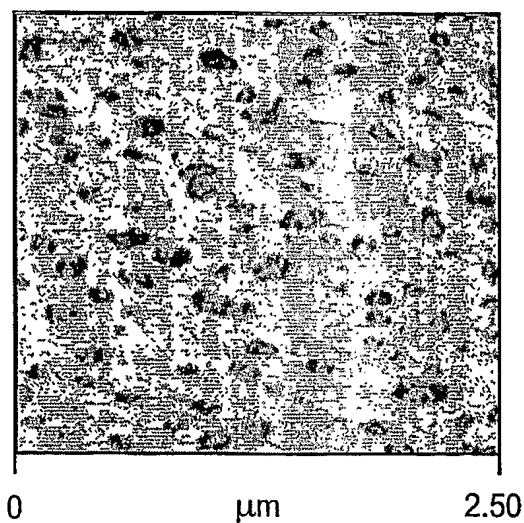
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FIG. 50

Delta DSC-CRYSTAF Relationship with DSC Melt Enthalpy



- ◆ Random Ethylene Octene
- × Comparative copolymer examples with MMAO
- Inventive copolymer examples

FIG. 51

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FIG. 52

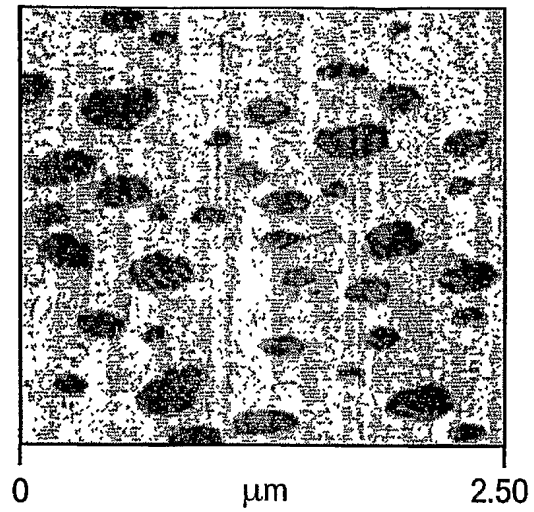
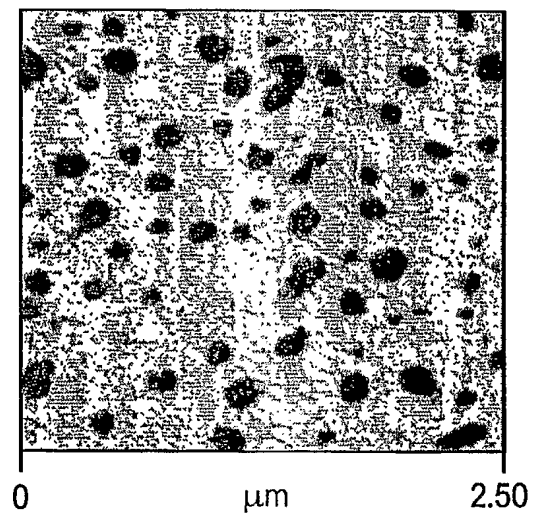


FIG. 53



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FIG. 54

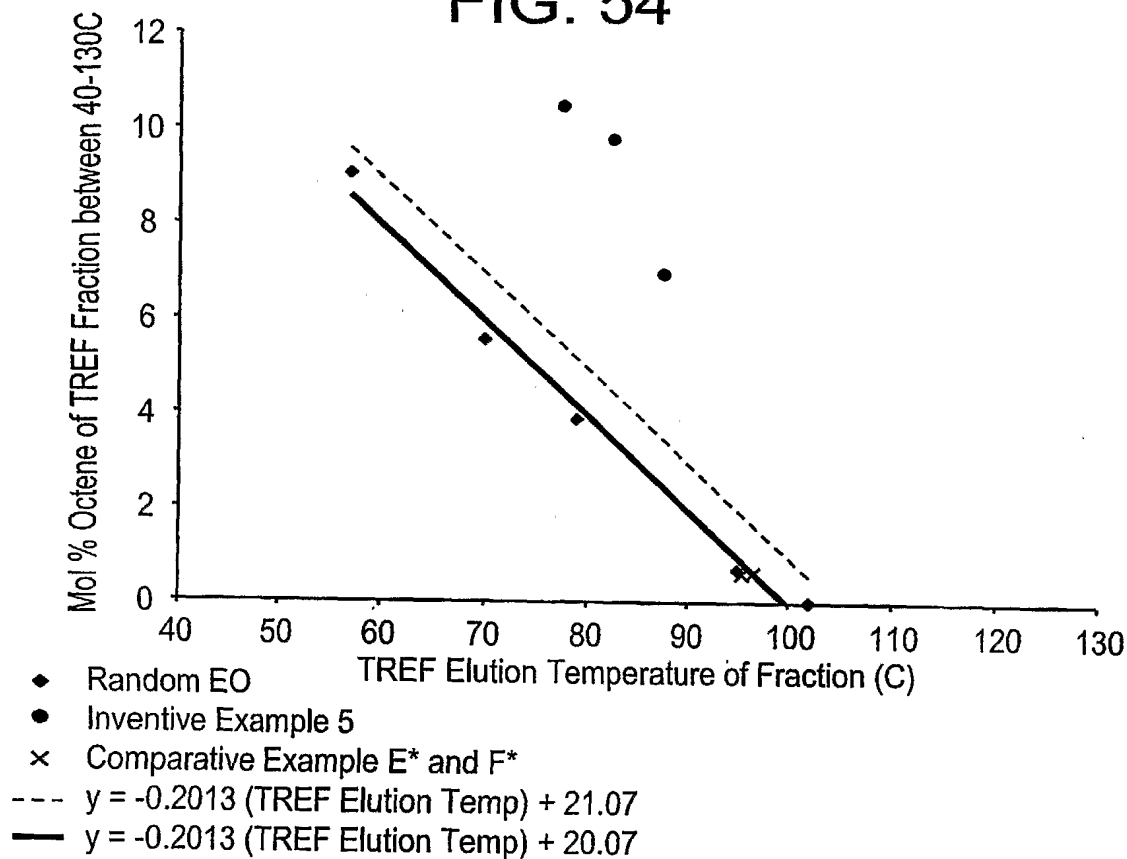


FIG. 55

